

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Test Band: 5											
Test Mode		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
		LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
HSUPA	Subtest 1	18.24	18.05	18.18	-0.15	2.00	18.09	17.90	18.03	38.45	PASS
	Subtest 2	18.23	18.05	18.35	-0.15	2.00	18.08	17.90	18.20	38.45	PASS
	Subtest 3	18.53	17.77	17.84	-0.15	2.00	18.38	17.62	17.69	38.45	PASS
	Subtest 4	18.72	17.77	18.18	-0.15	2.00	18.57	17.62	18.03	38.45	PASS
	Subtest 5	18.53	18.28	18.17	-0.15	2.00	18.38	18.13	18.02	38.45	PASS
HSDPA	Subtest 1	18.47	17.95	18.04	-0.15	2.00	18.32	17.80	17.89	38.45	PASS
	Subtest 2	18.67	18.49	18.59	-0.15	2.00	18.52	18.34	18.44	38.45	PASS
	Subtest 3	18.75	17.86	18.39	-0.15	2.00	18.60	17.71	18.24	38.45	PASS
	Subtest 4	18.71	18.10	17.83	-0.15	2.00	18.56	17.95	17.68	38.45	PASS
RMC	12.2kbps RMC	20.57	20.70	20.22	-0.15	2.00	20.42	20.55	20.07	38.45	PASS

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)
 3) ERP = Conducted output power + Antenna gain (dBd)

2. Frequency stability

2.1 Test Result

Test Band: 5 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NT	LV	1.0085	5.7578	3.1829	0.0012	0.0069	0.0038	2.50	PASS
		NV	0.5865	3.4618	3.4046	0.0007	0.0041	0.0040	2.50	PASS
		HV	2.1958	4.2772	2.2602	0.0027	0.0051	0.0027	2.50	PASS
HSDPA	NT	LV	0.6223	0.1431	-2.9612	0.0008	0.0002	-0.0035	2.50	PASS
		NV	-0.4005	3.4976	-1.6308	-0.0005	0.0042	-0.0019	2.50	PASS
		HV	1.9598	2.9111	-3.1328	0.0024	0.0035	-0.0037	2.50	PASS
RMC	NT	LV	-0.7081	1.3590	3.8767	-0.0009	0.0016	0.0046	2.50	PASS
		NV	-5.1928	-0.6580	1.3089	-0.0063	-0.0008	0.0015	2.50	PASS
		HV	-3.4189	1.3232	-0.5579	-0.0041	0.0016	-0.0007	2.50	PASS

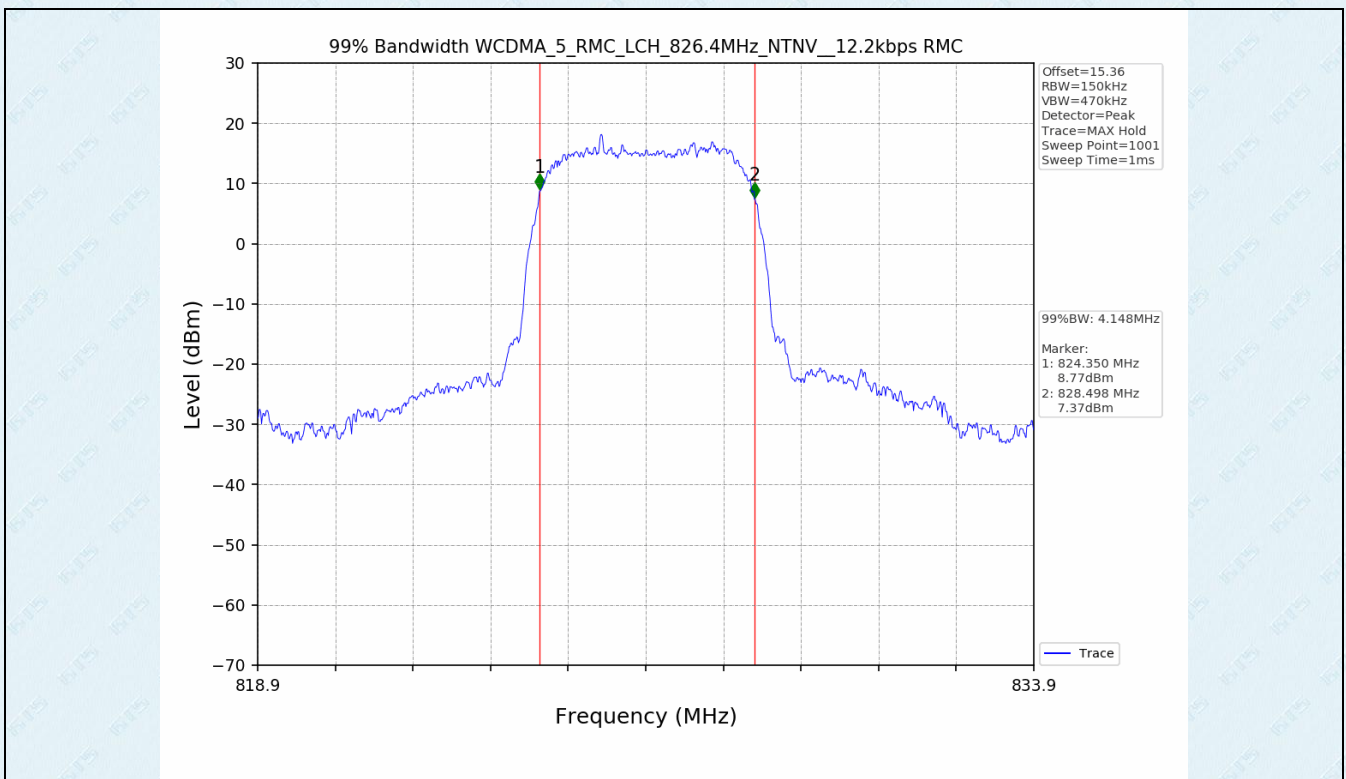
Test Band: 5 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NV	-30.00	-0.4363	5.1212	1.5593	-0.0005	0.0061	0.0018	2.50	PASS
		-20.00	-1.3089	6.4659	3.2401	-0.0016	0.0077	0.0038	2.50	PASS
		-10.00	1.1230	4.9496	4.3702	0.0014	0.0059	0.0052	2.50	PASS
		0.00	-1.4949	4.8637	4.4632	-0.0018	0.0058	0.0053	2.50	PASS
		10.00	1.8168	0.7296	2.8324	0.0022	0.0009	0.0033	2.50	PASS
		20.00	0.2646	-1.6665	1.8024	0.0003	-0.0020	0.0021	2.50	PASS
		30.00	3.6621	0.3219	3.3045	0.0044	0.0004	0.0039	2.50	PASS
		40.00	1.8382	2.1243	4.9782	0.0022	0.0025	0.0059	2.50	PASS
		50.00	2.0385	0.8869	5.8436	0.0025	0.0011	0.0069	2.50	PASS
HSDPA	NV	-30.00	1.7667	-0.8082	-3.8338	0.0021	-0.0010	-0.0045	2.50	PASS
		-20.00	1.5020	-3.3689	0.0215	0.0018	-0.0040	0.0000	2.50	PASS
		-10.00	0.3934	-1.2231	-1.7810	0.0005	-0.0015	-0.0021	2.50	PASS
		0.00	0.0644	-0.8011	-1.9884	0.0001	-0.0010	-0.0023	2.50	PASS
		10.00	-3.4118	1.2875	0.0072	-0.0041	0.0015	0.0000	2.50	PASS
		20.00	1.8883	3.0184	-2.3031	0.0023	0.0036	-0.0027	2.50	PASS
		30.00	-1.0228	1.5378	-0.4148	-0.0012	0.0018	-0.0005	2.50	PASS
		40.00	-0.3147	1.4520	-2.3460	-0.0004	0.0017	-0.0028	2.50	PASS
		50.00	-3.6907	-0.1717	-1.2588	-0.0045	-0.0002	-0.0015	2.50	PASS
RMC	NV	-30.00	-2.1458	-0.8011	2.0242	-0.0026	-0.0010	0.0024	2.50	PASS
		-20.00	-3.7122	2.1172	-0.5937	-0.0045	0.0025	-0.0007	2.50	PASS
		-10.00	-1.9813	4.3201	-0.1717	-0.0024	0.0052	-0.0002	2.50	PASS
		0.00	-3.2187	-0.9012	3.3617	-0.0039	-0.0011	0.0040	2.50	PASS
		10.00	-2.4962	0.2217	2.1315	-0.0030	0.0003	0.0025	2.50	PASS
		20.00	-5.3215	-0.7153	3.3760	-0.0064	-0.0009	0.0040	2.50	PASS
		30.00	-3.9411	-4.1842	3.6478	-0.0048	-0.0050	0.0043	2.50	PASS
		40.00	-2.6035	-3.5119	3.0756	-0.0032	-0.0042	0.0036	2.50	PASS
		50.00	-2.5463	-1.9526	-6.3944	-0.0031	-0.0023	-0.0076	2.50	PASS

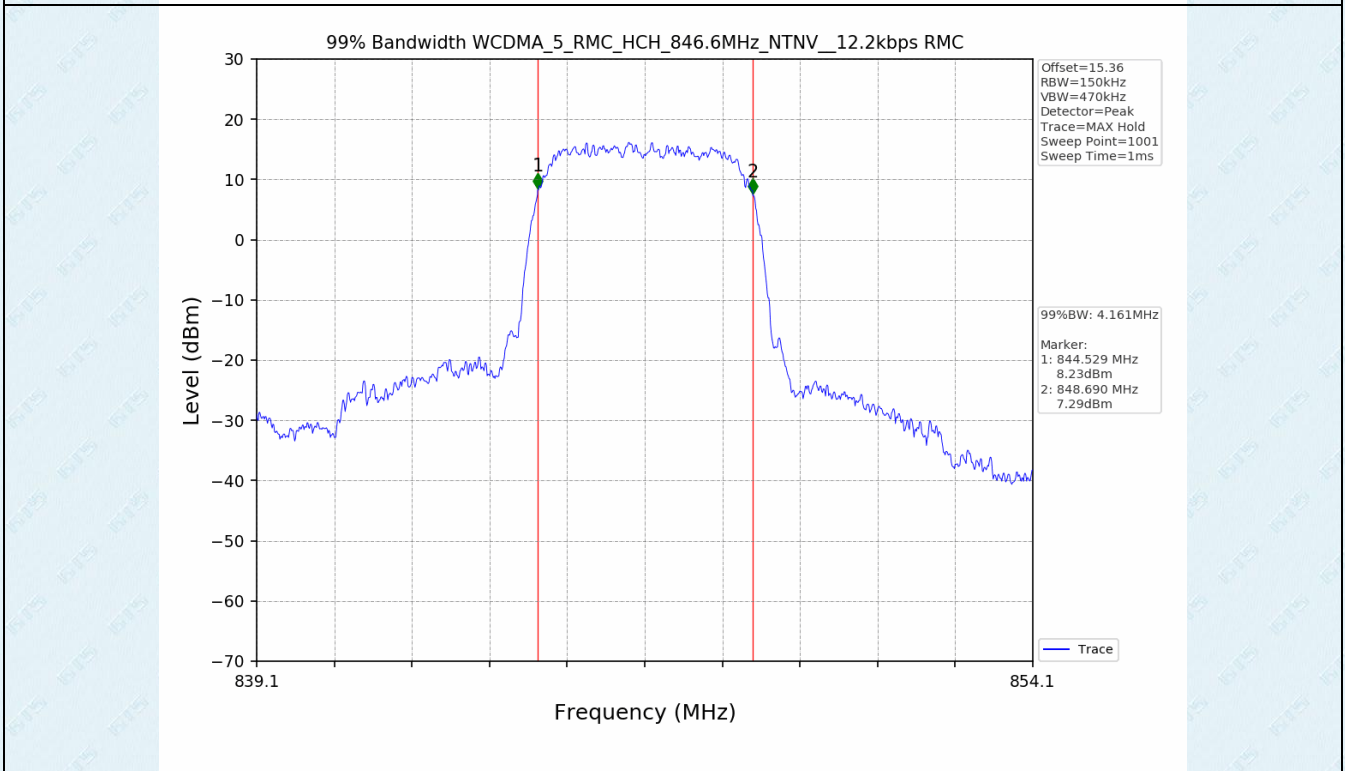
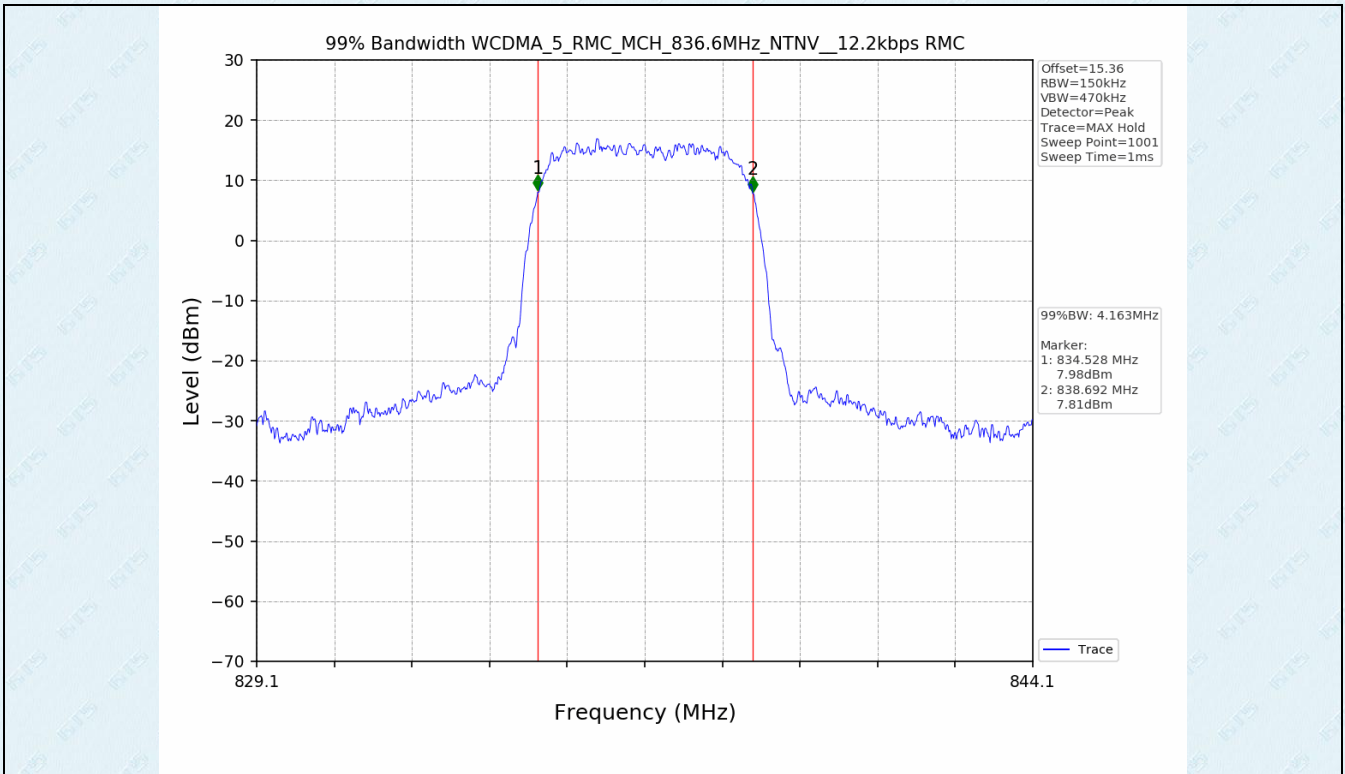
3. 99% & 26dB Bandwidth

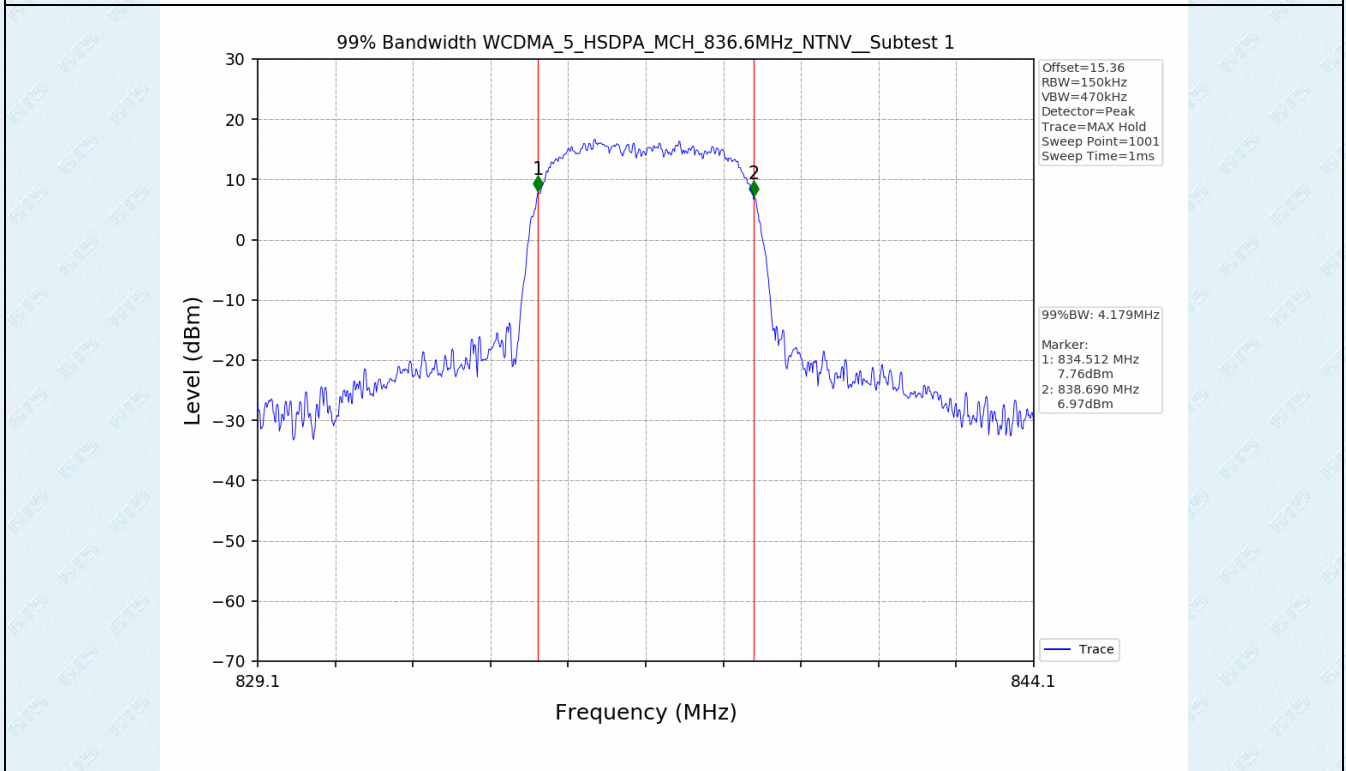
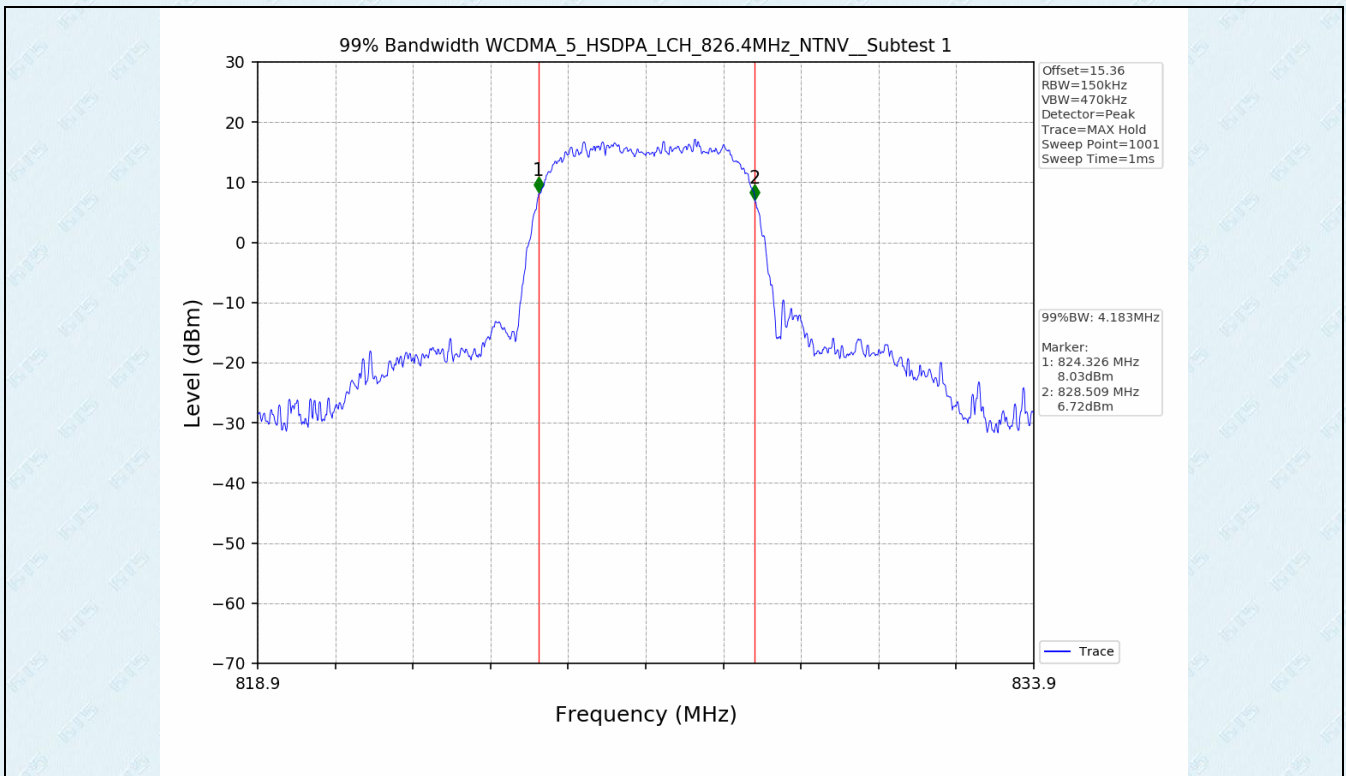
3.1 Test Result

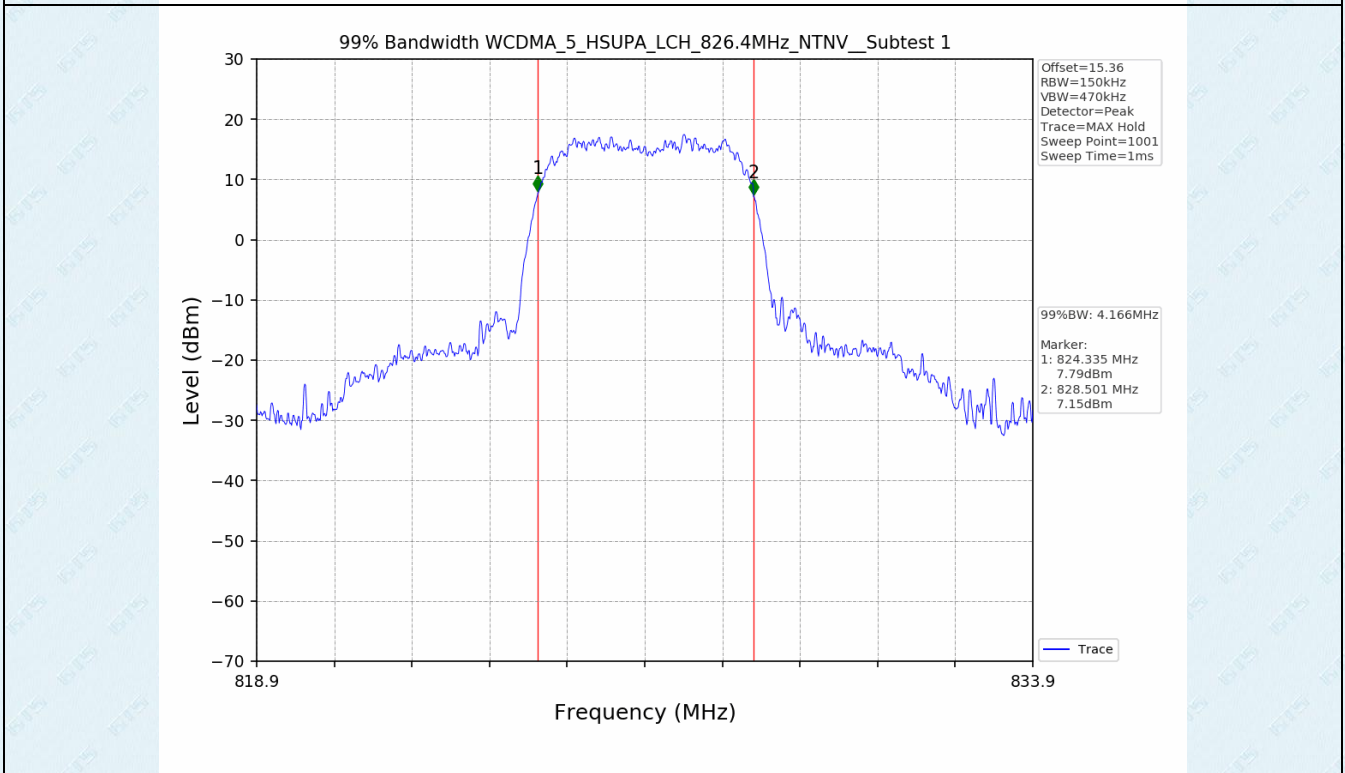
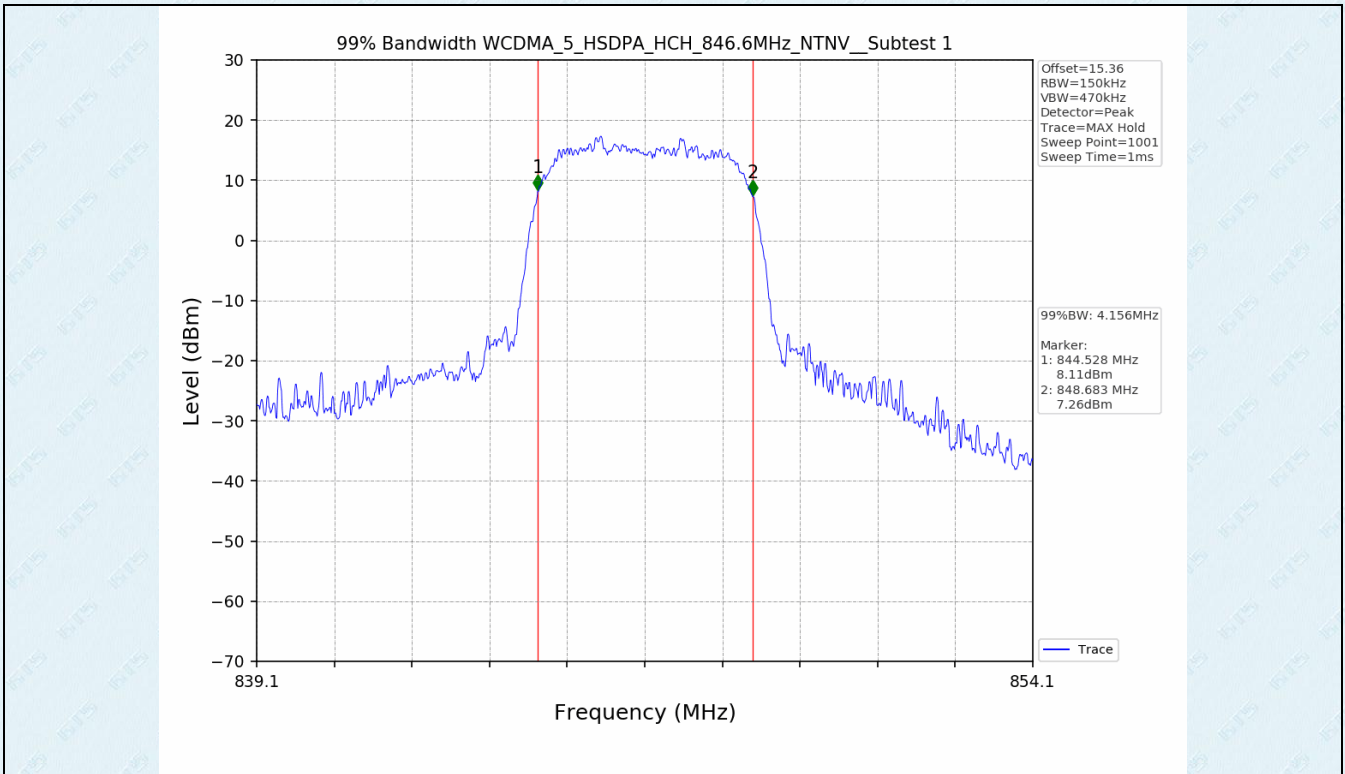
Test Mode	Test Band: 5 99% Occupied Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
HSUPA	4.166	4.154	4.158	N/A	PASS
HSDPA	4.183	4.179	4.156	N/A	PASS
RMC	4.148	4.163	4.161	N/A	PASS

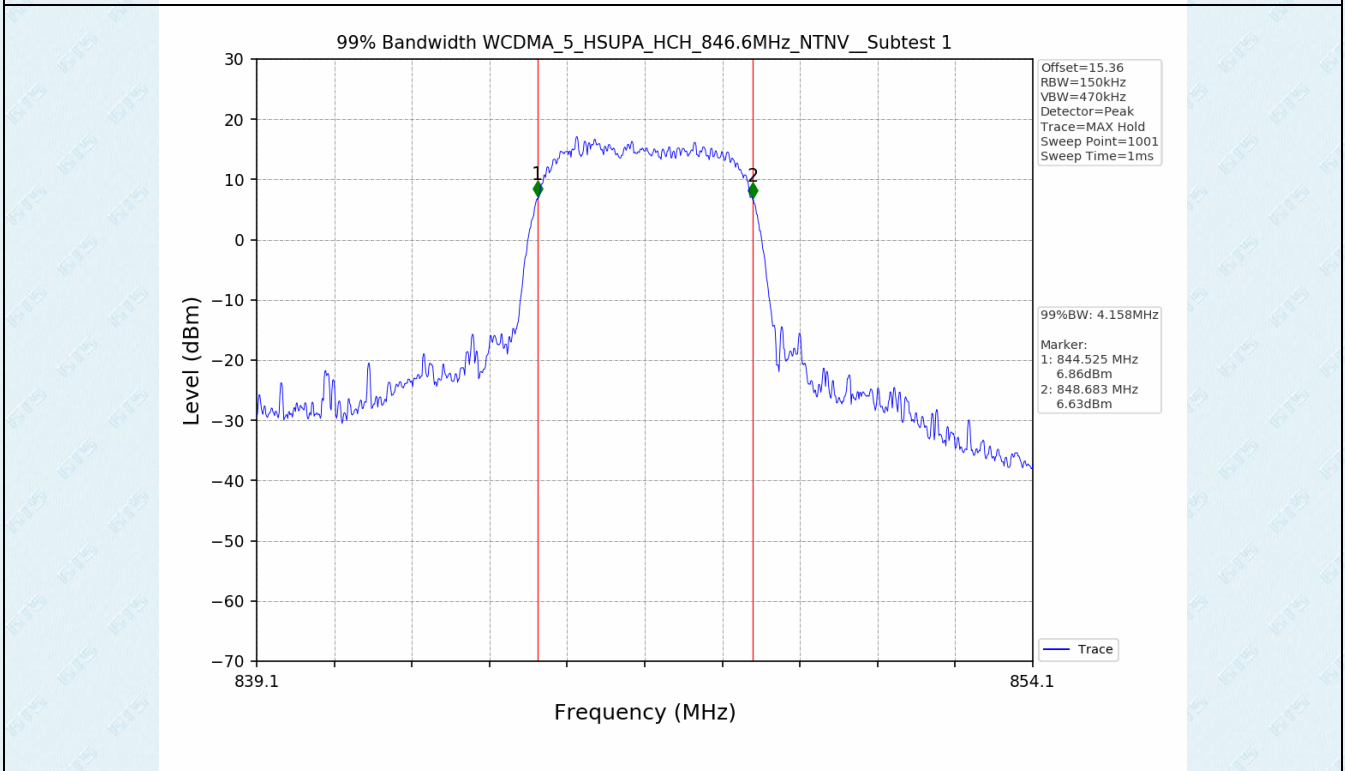
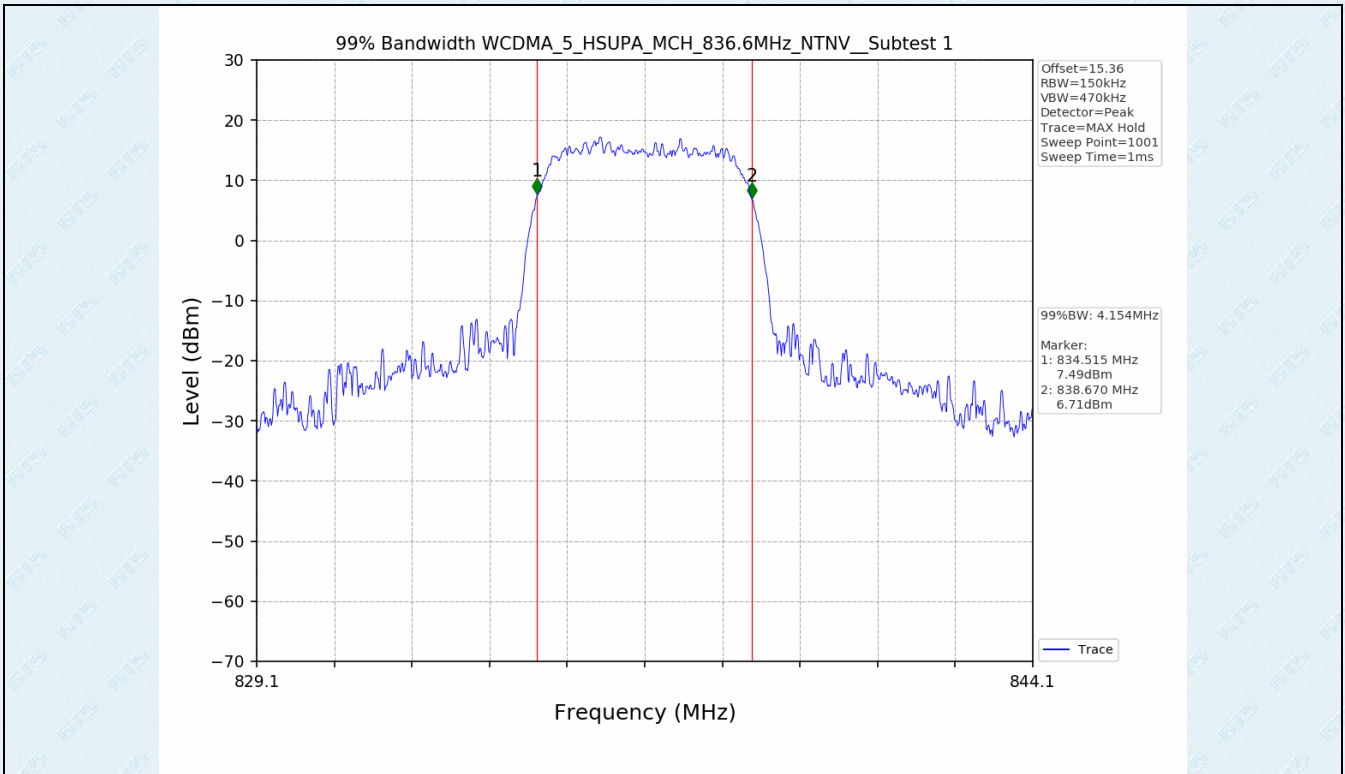
3.2 Test Graph





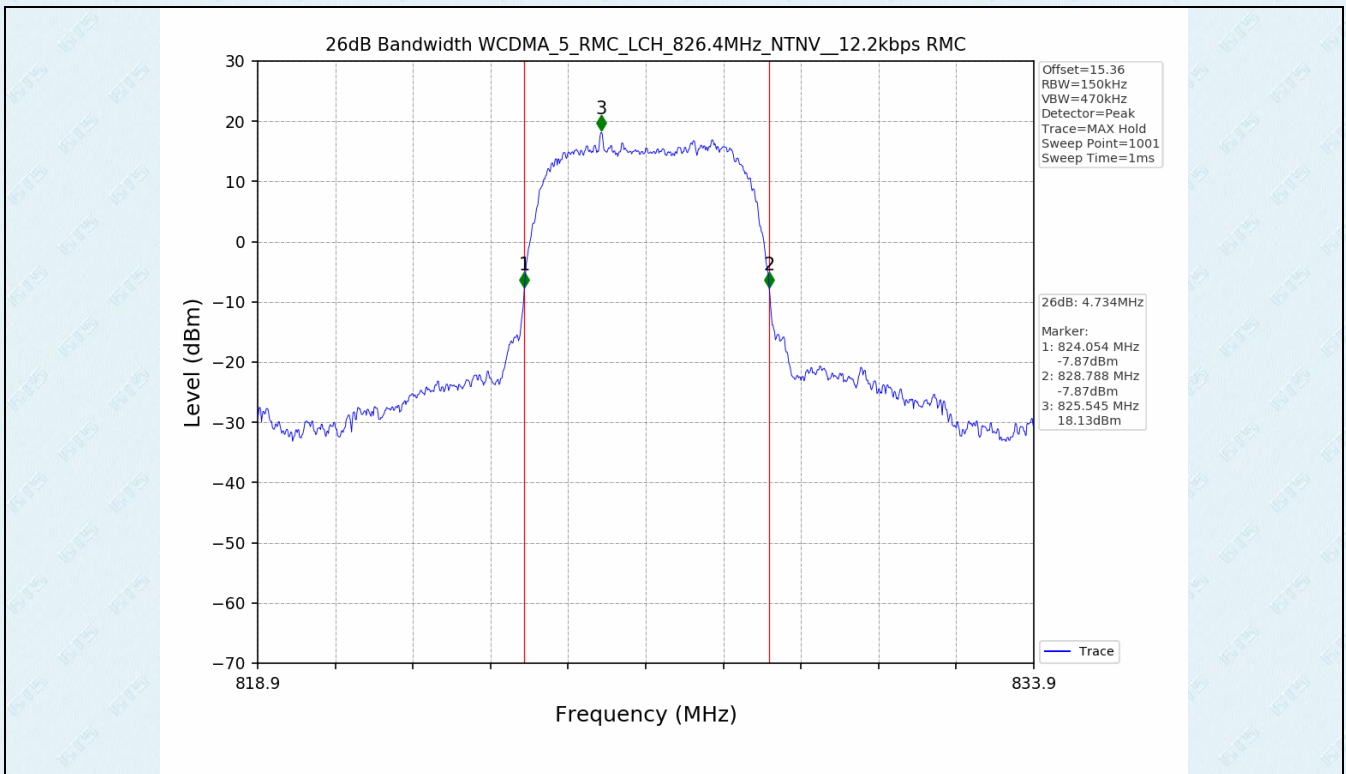


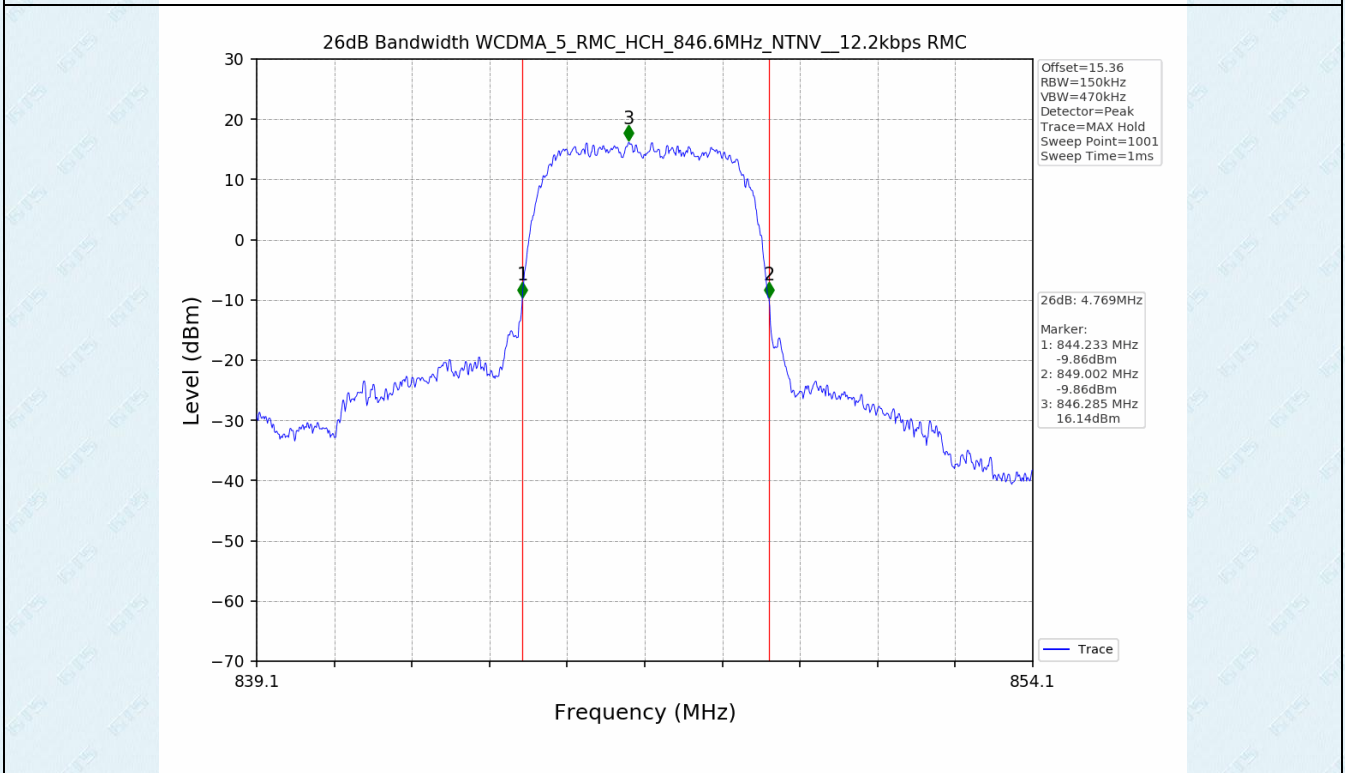
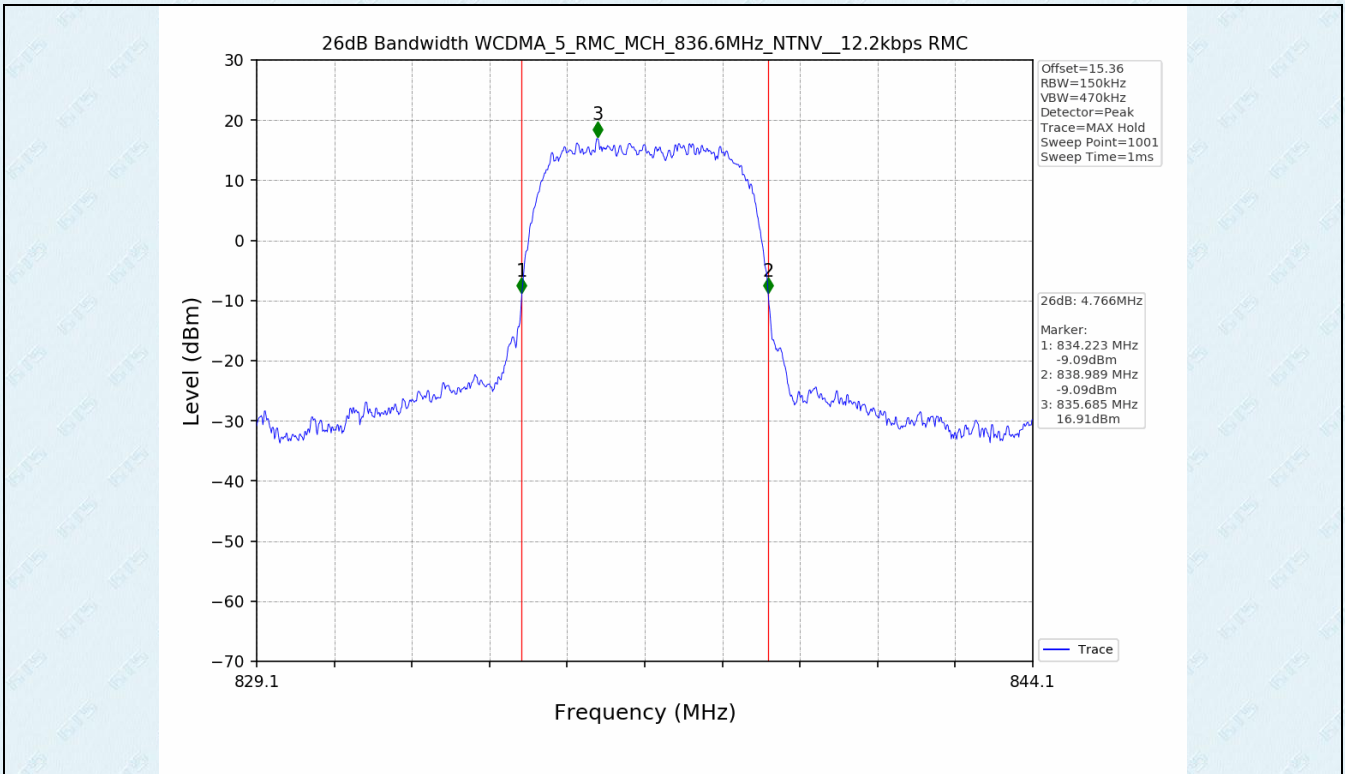


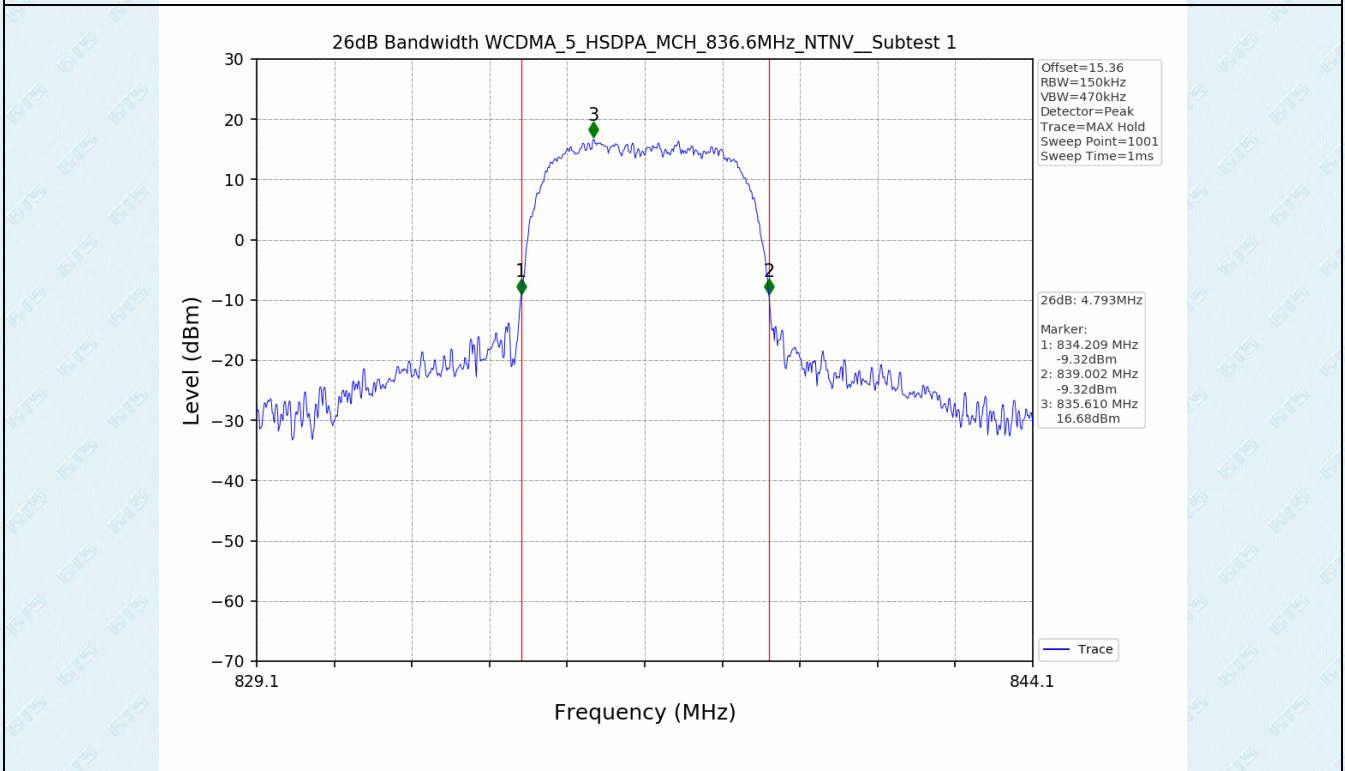
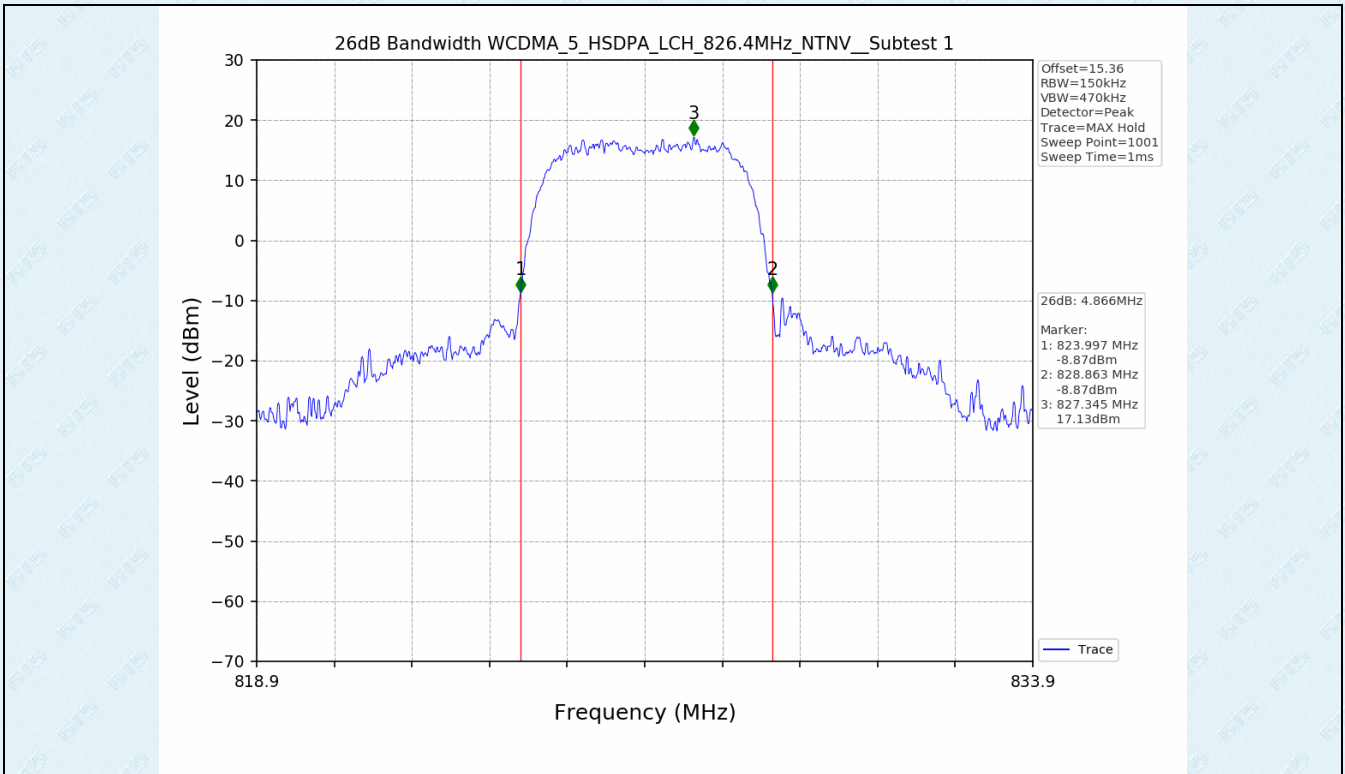


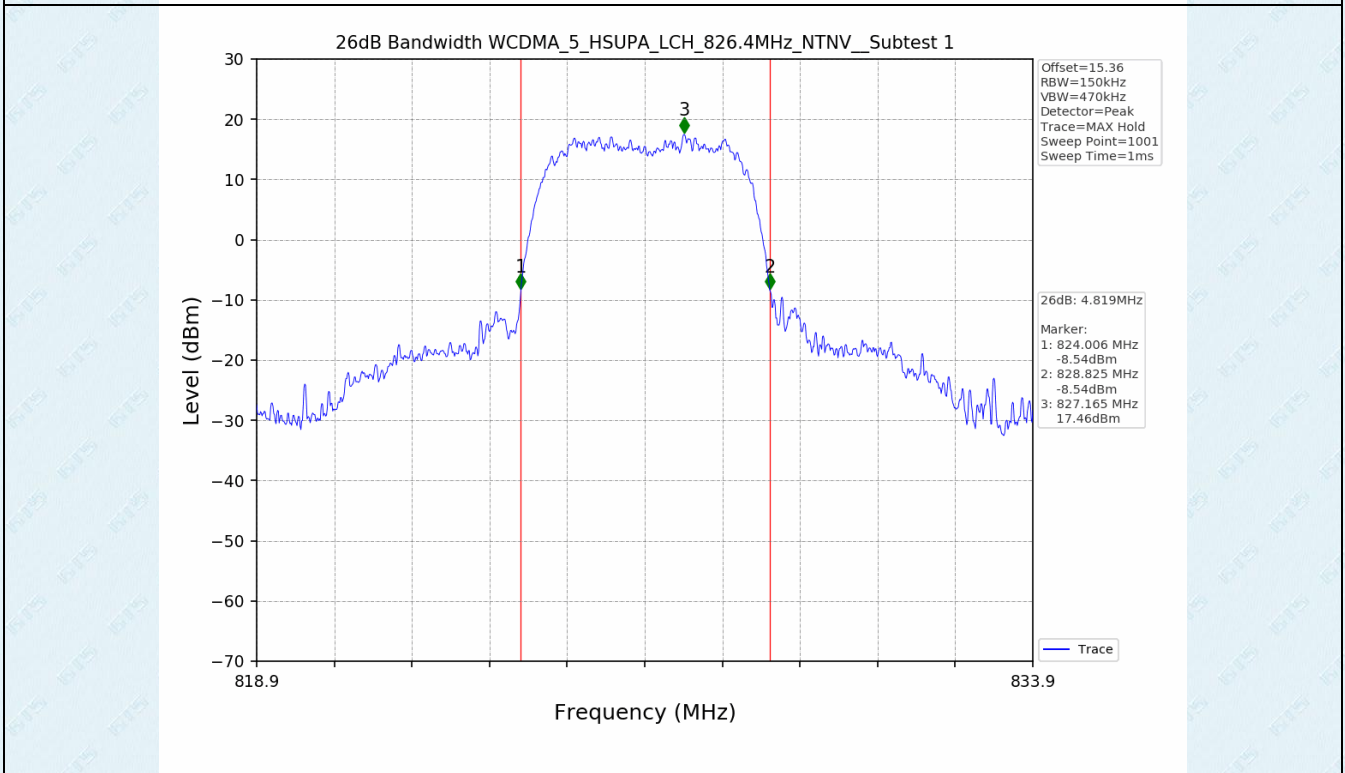
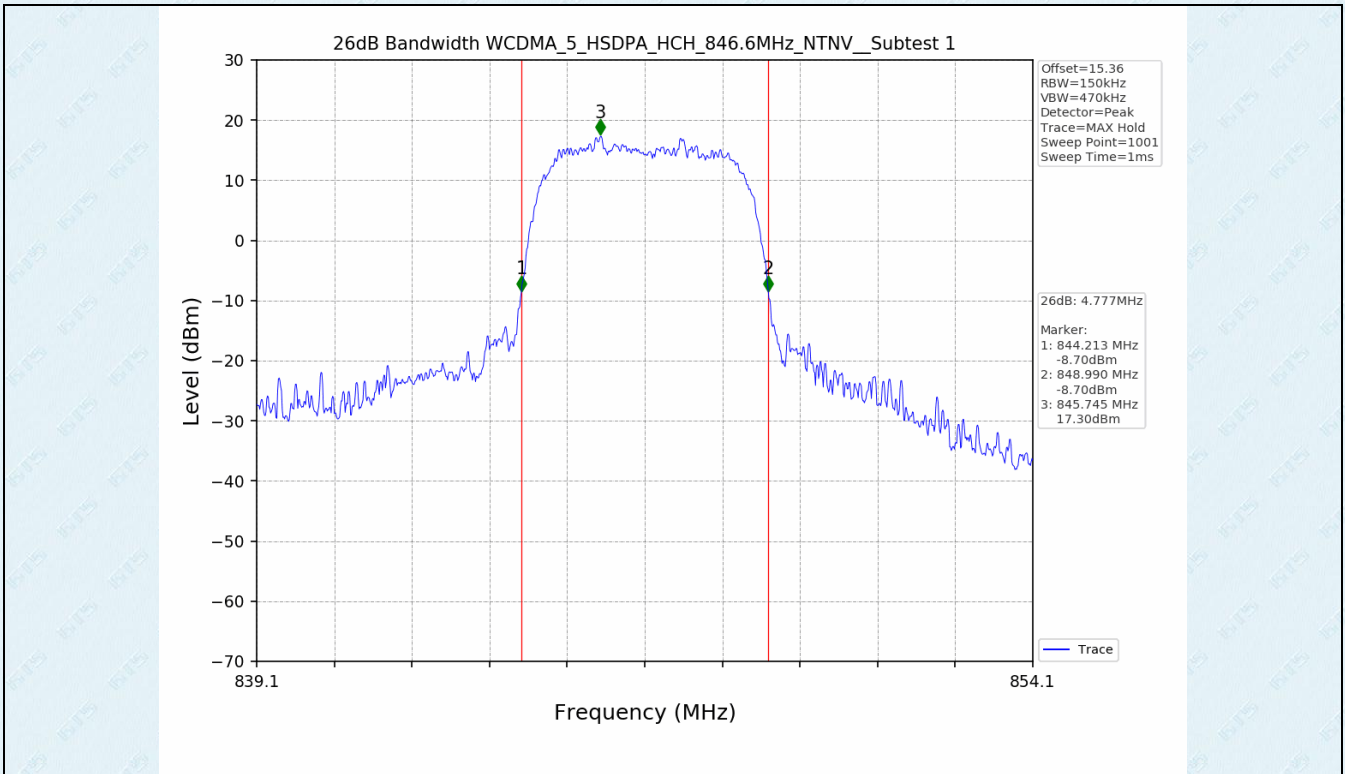
Test Band: 5					
Test Mode	26dB Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
HSUPA	4.819	4.768	4.781	N/A	PASS
HSDPA	4.866	4.793	4.777	N/A	PASS
RMC	4.734	4.766	4.769	N/A	PASS

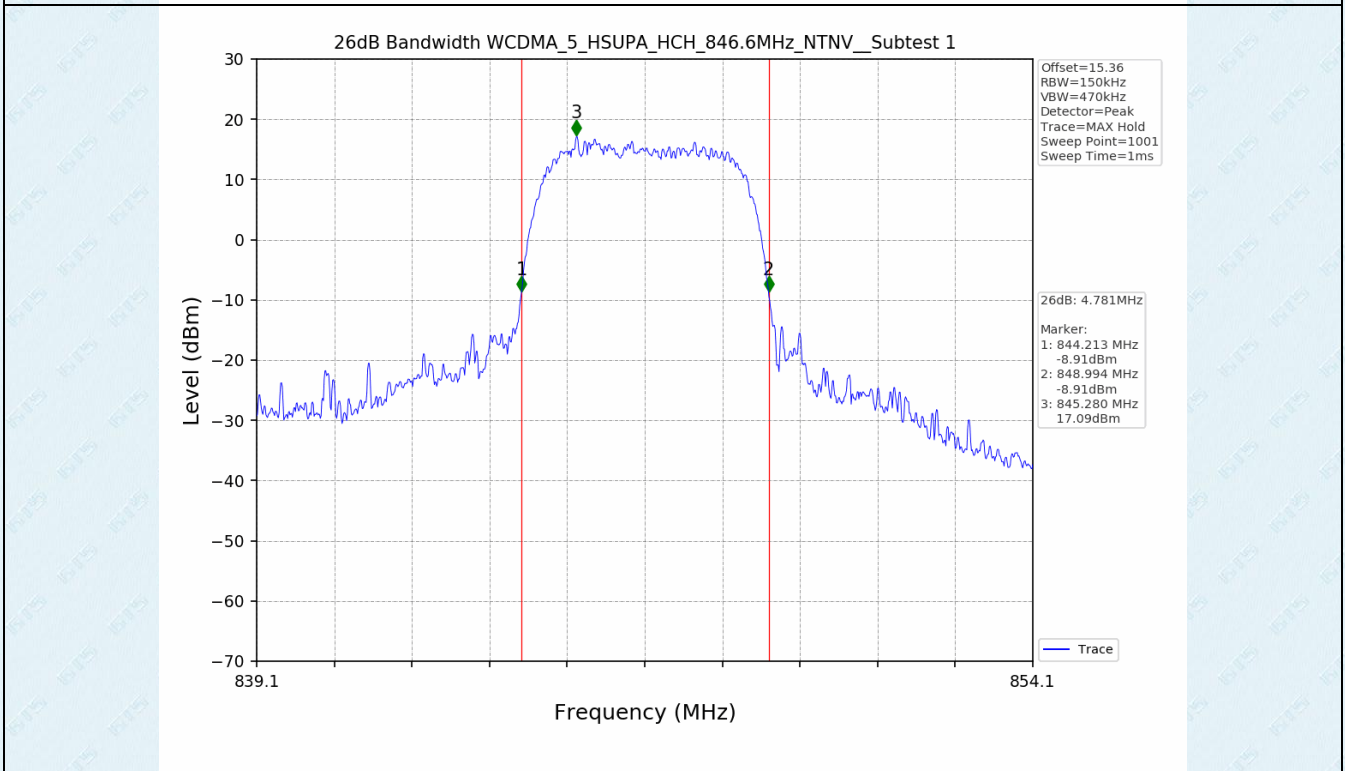
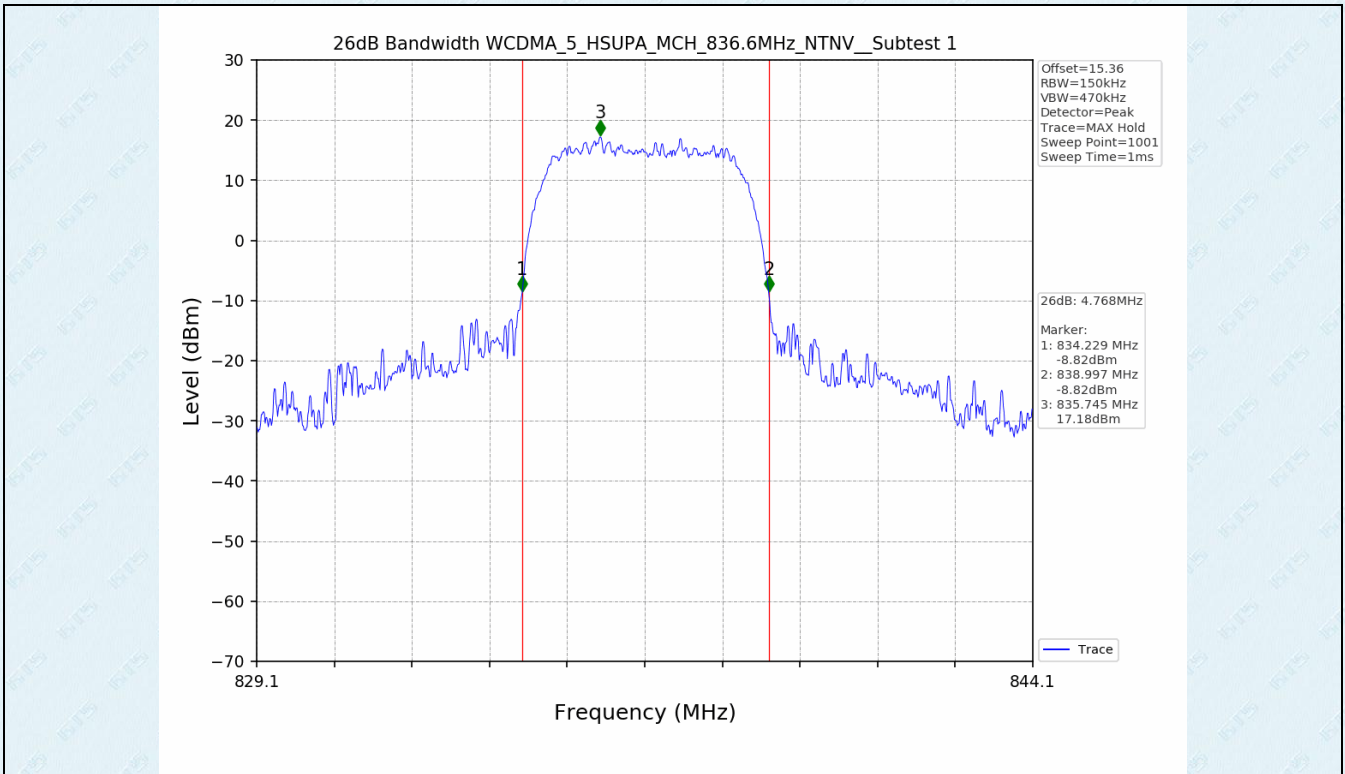
3.2 Test Graph









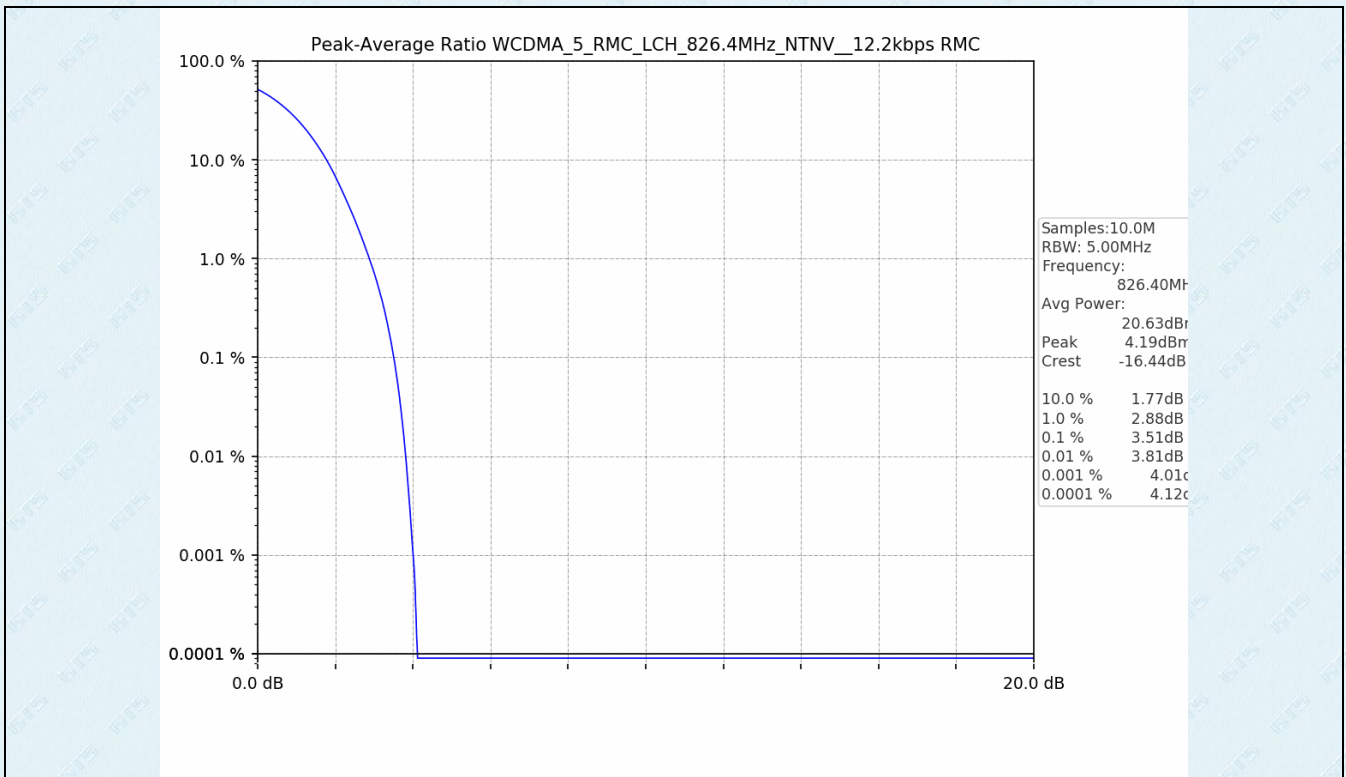


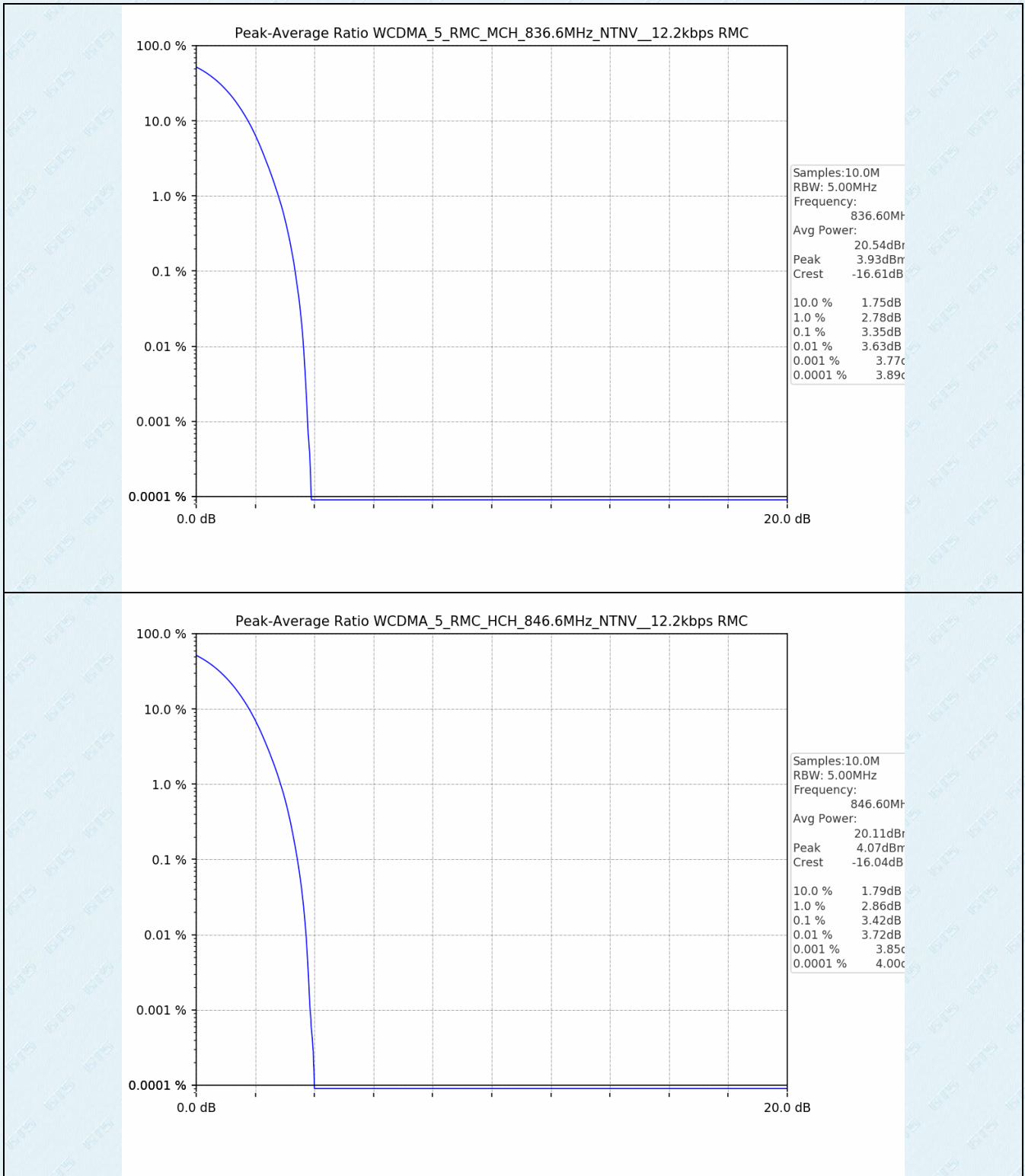
4. Peak-Average Ratio

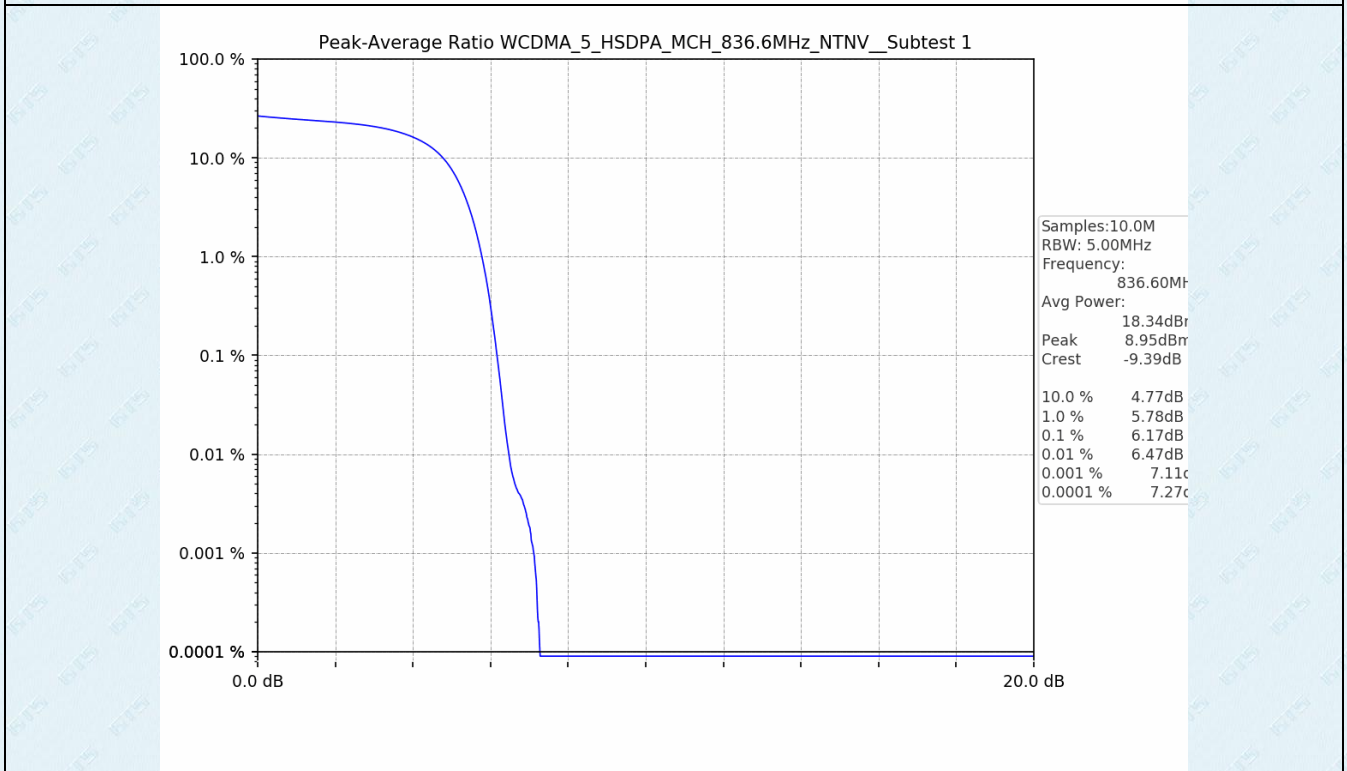
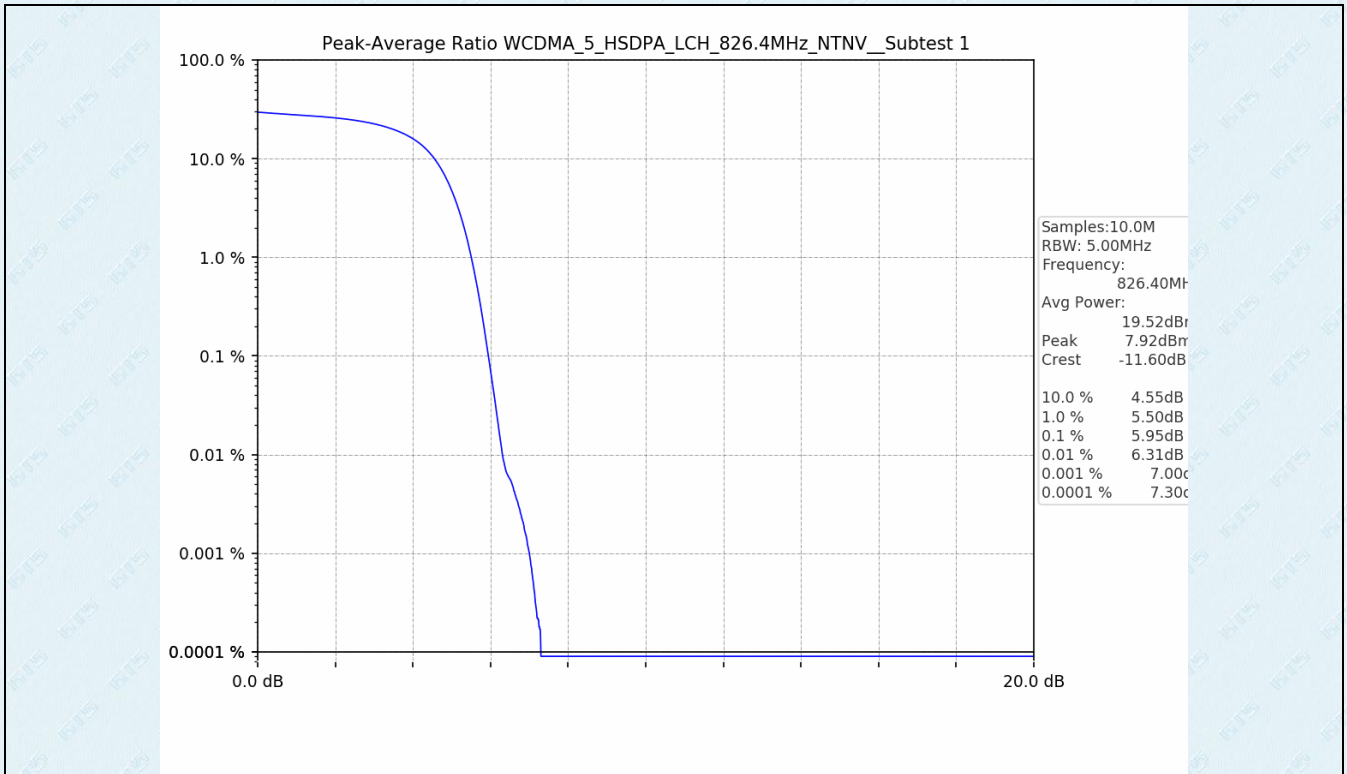
4.1 Test Result

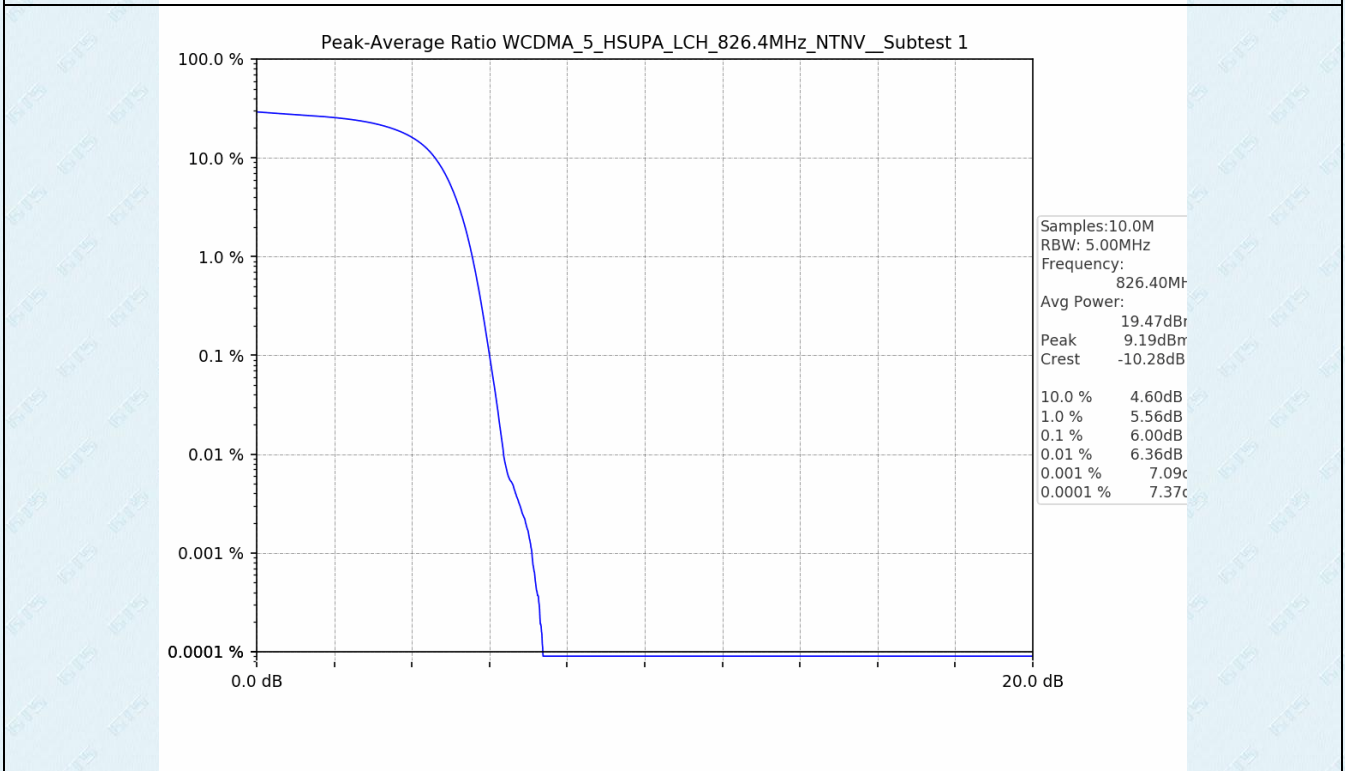
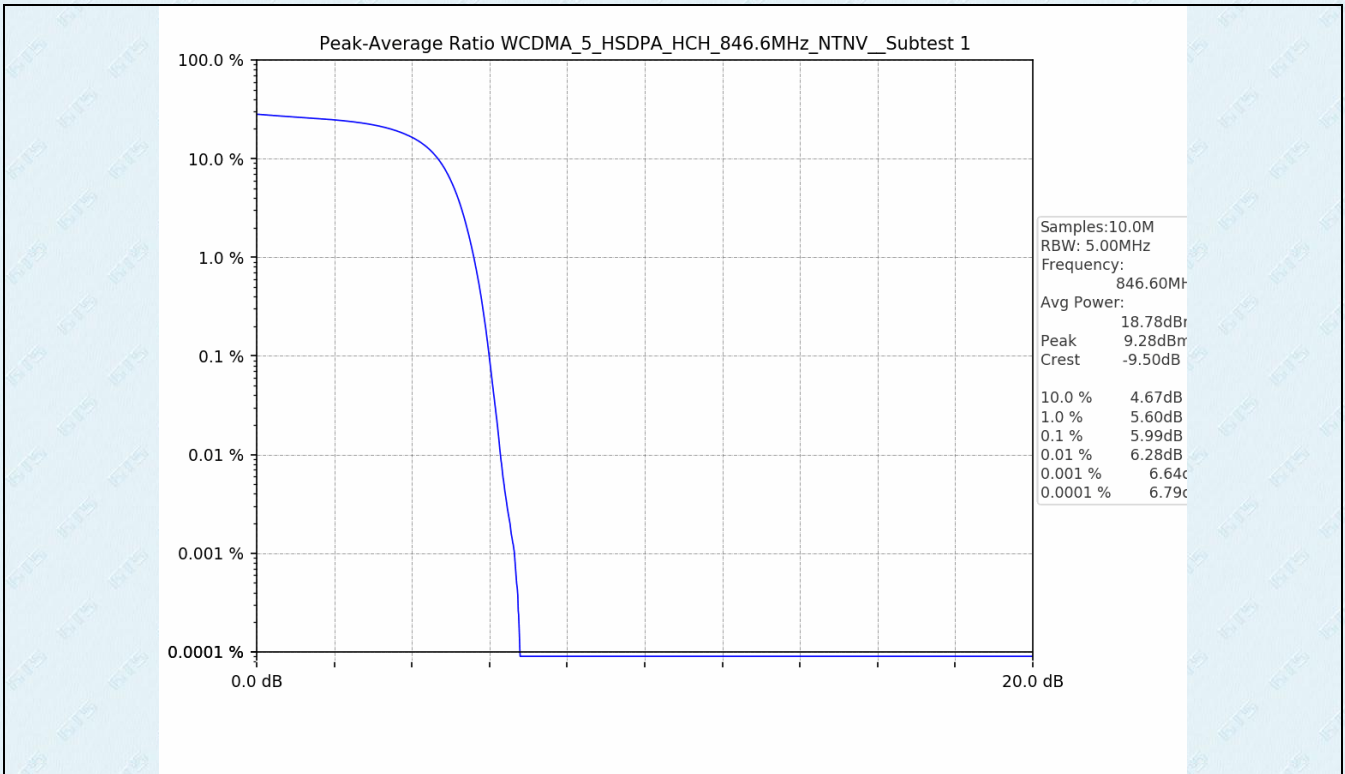
Test Mode	Test Band: 5			Limit (dB)	Verdict
	Test result (dB)				
	LCH	MCH	HCH		
HSUPA	6.00	5.94	6.14	13	PASS
HSDPA	5.95	6.17	5.99	13	PASS
RMC	3.51	3.35	3.42	13	PASS

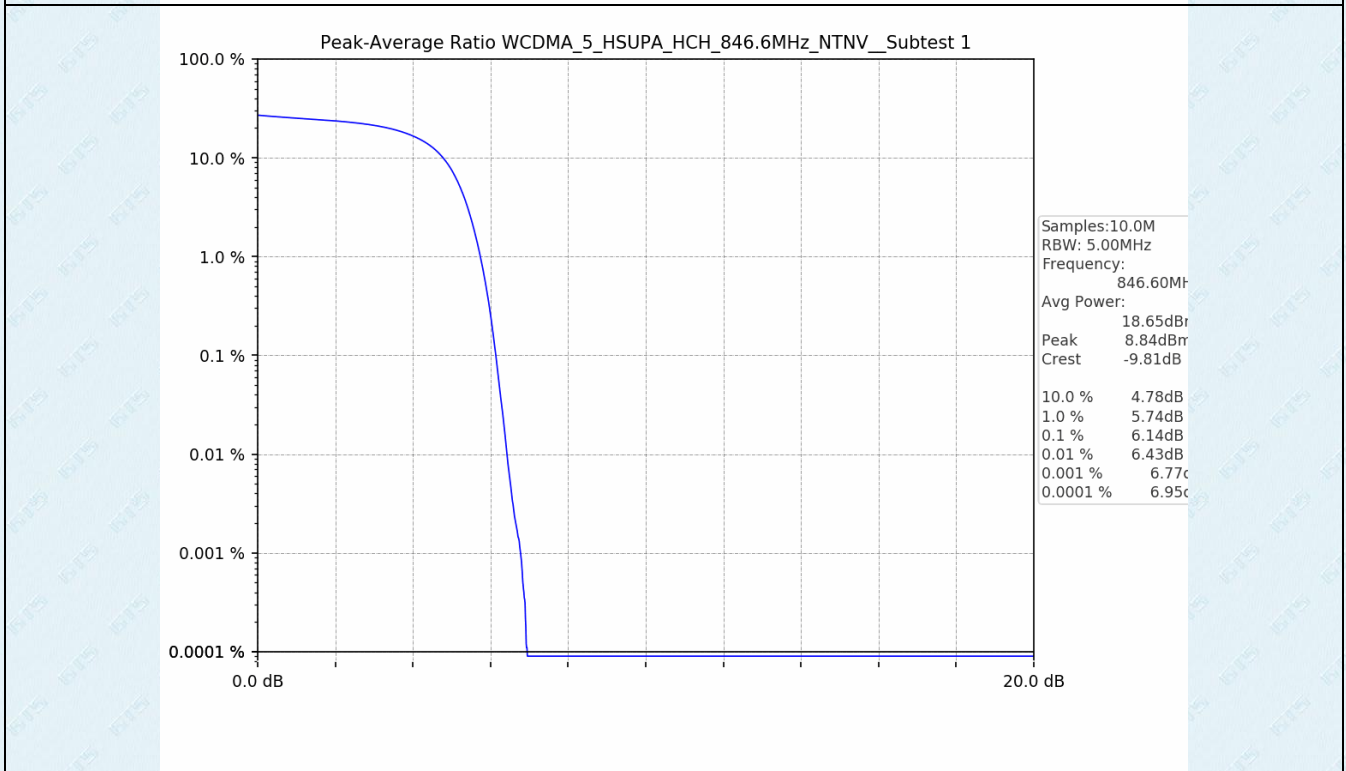
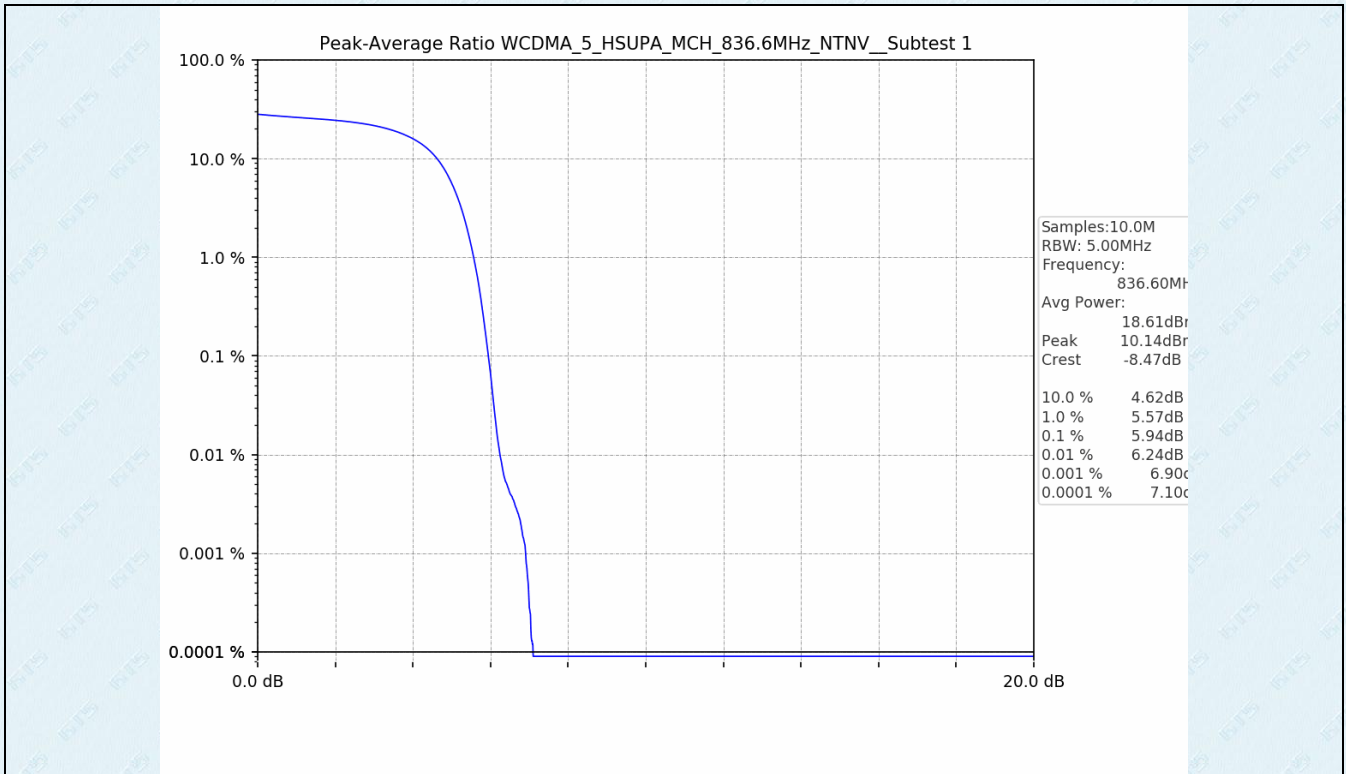
4.2 Test Graph





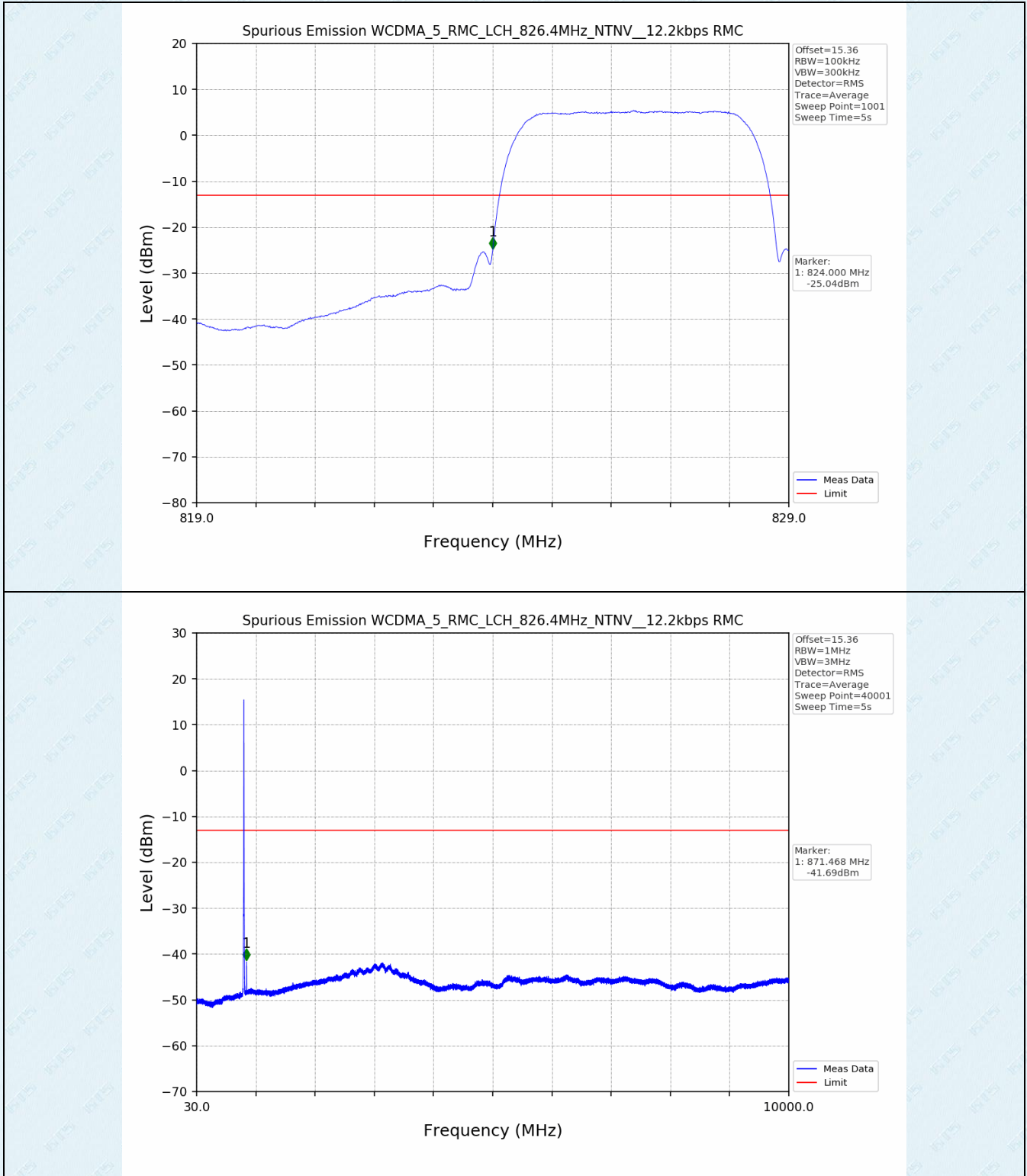


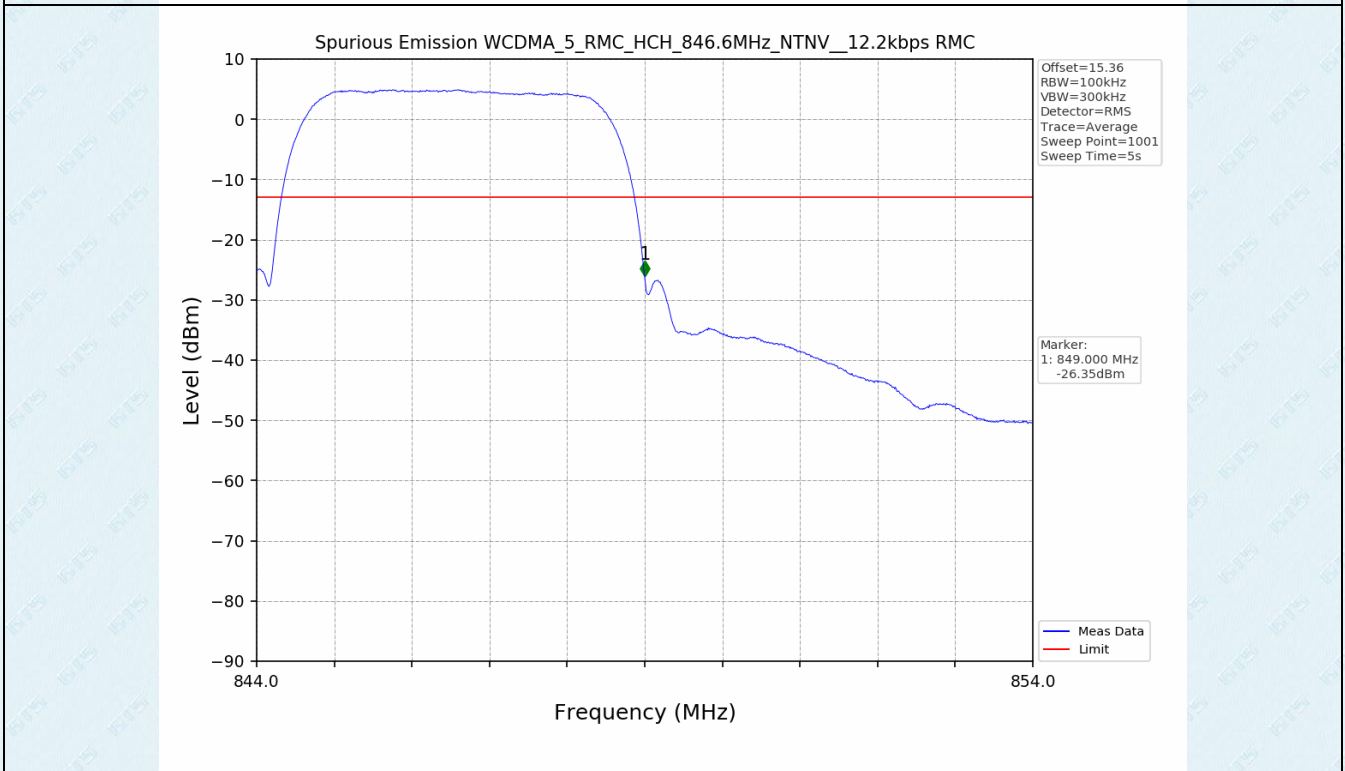
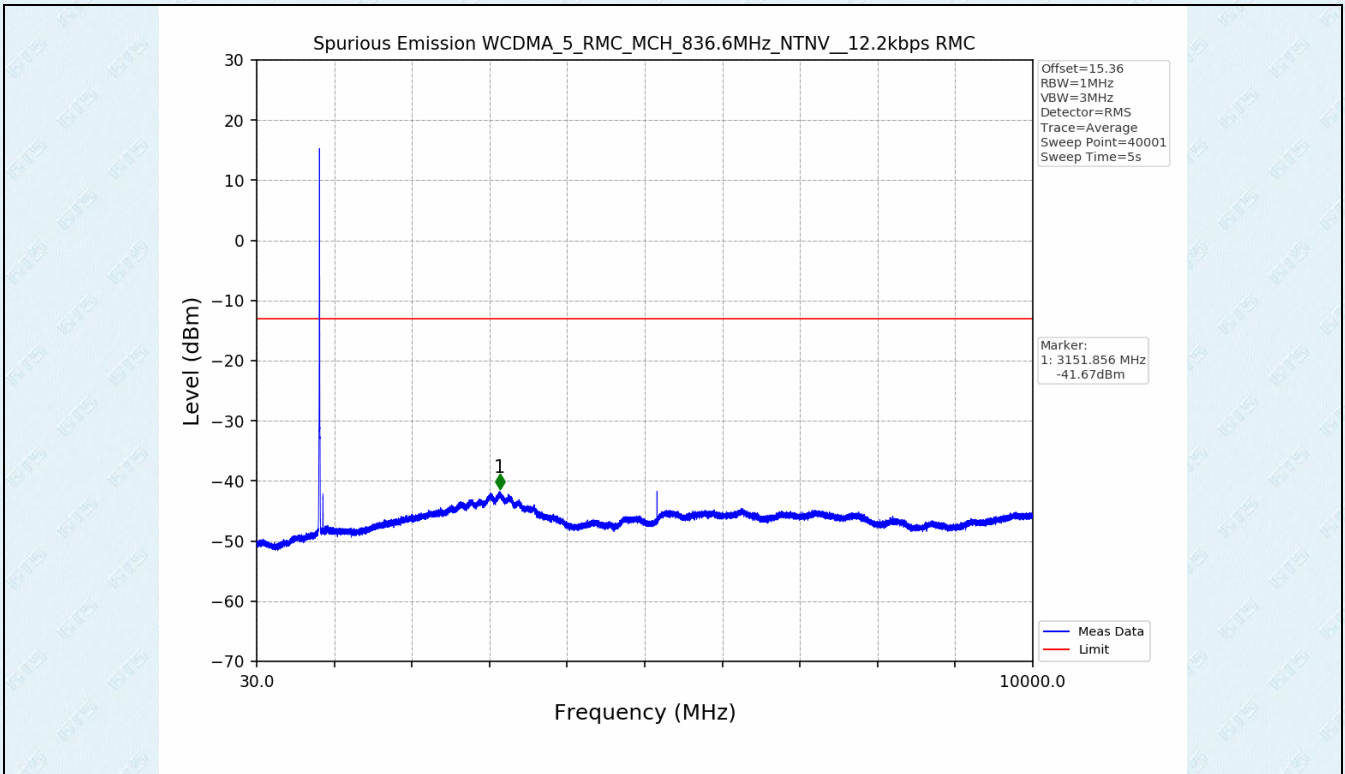


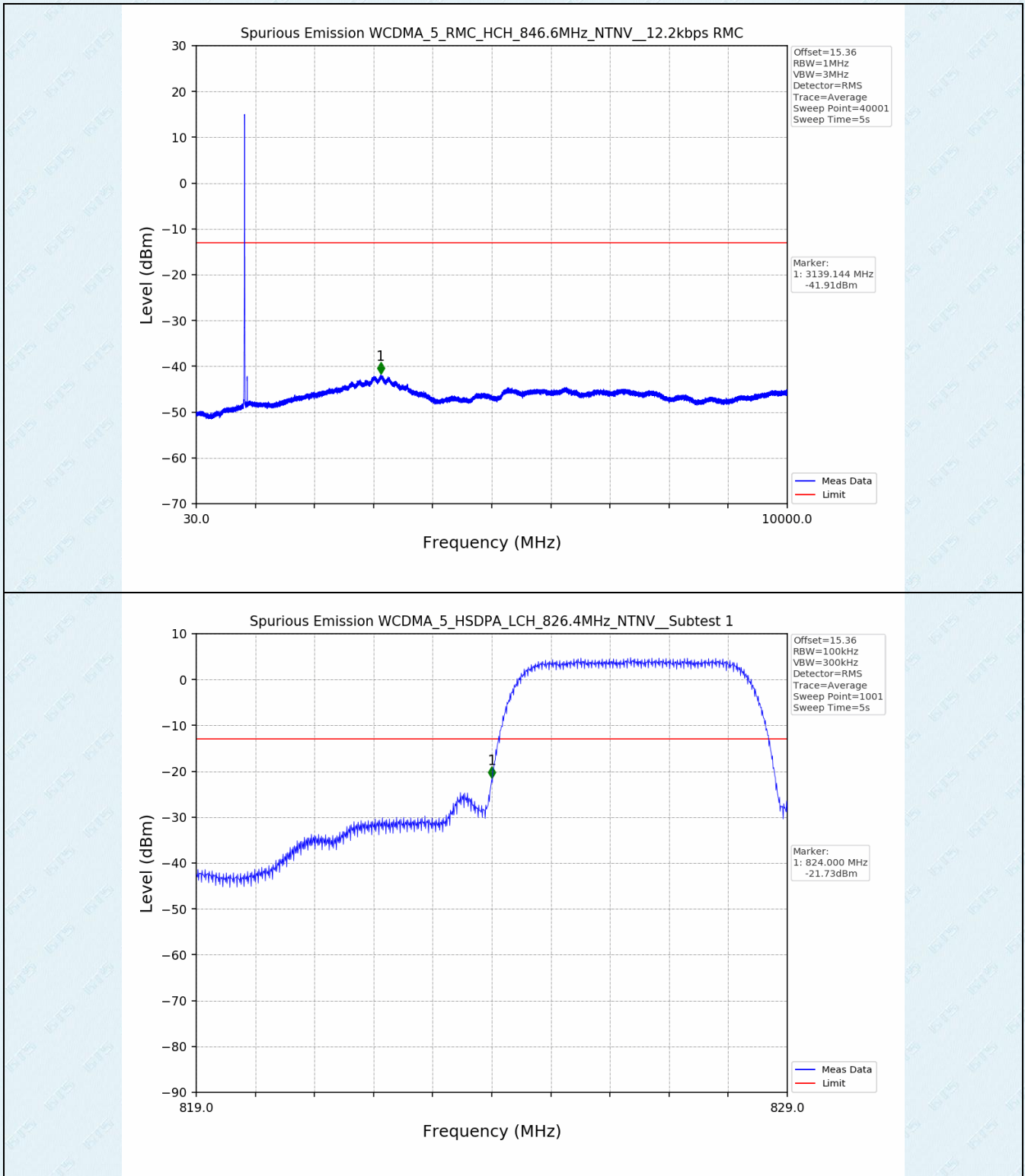


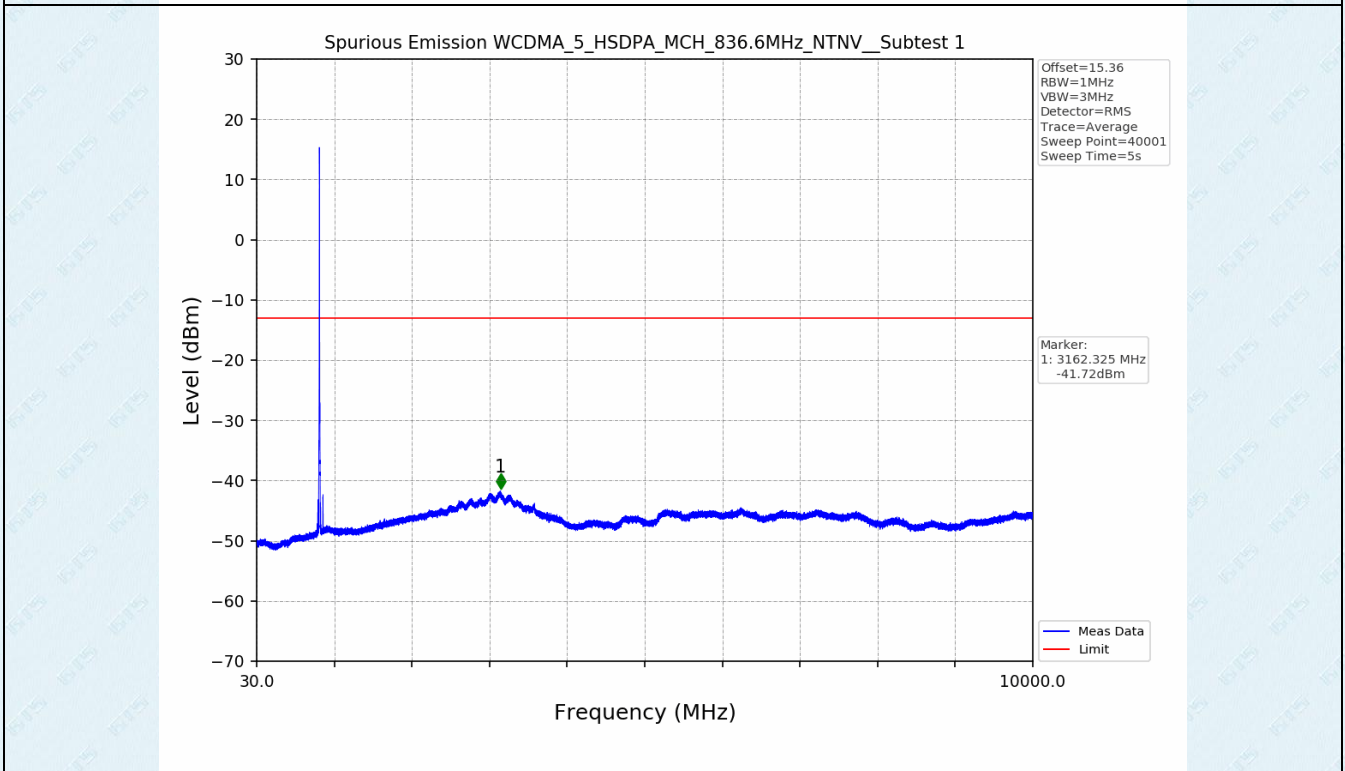
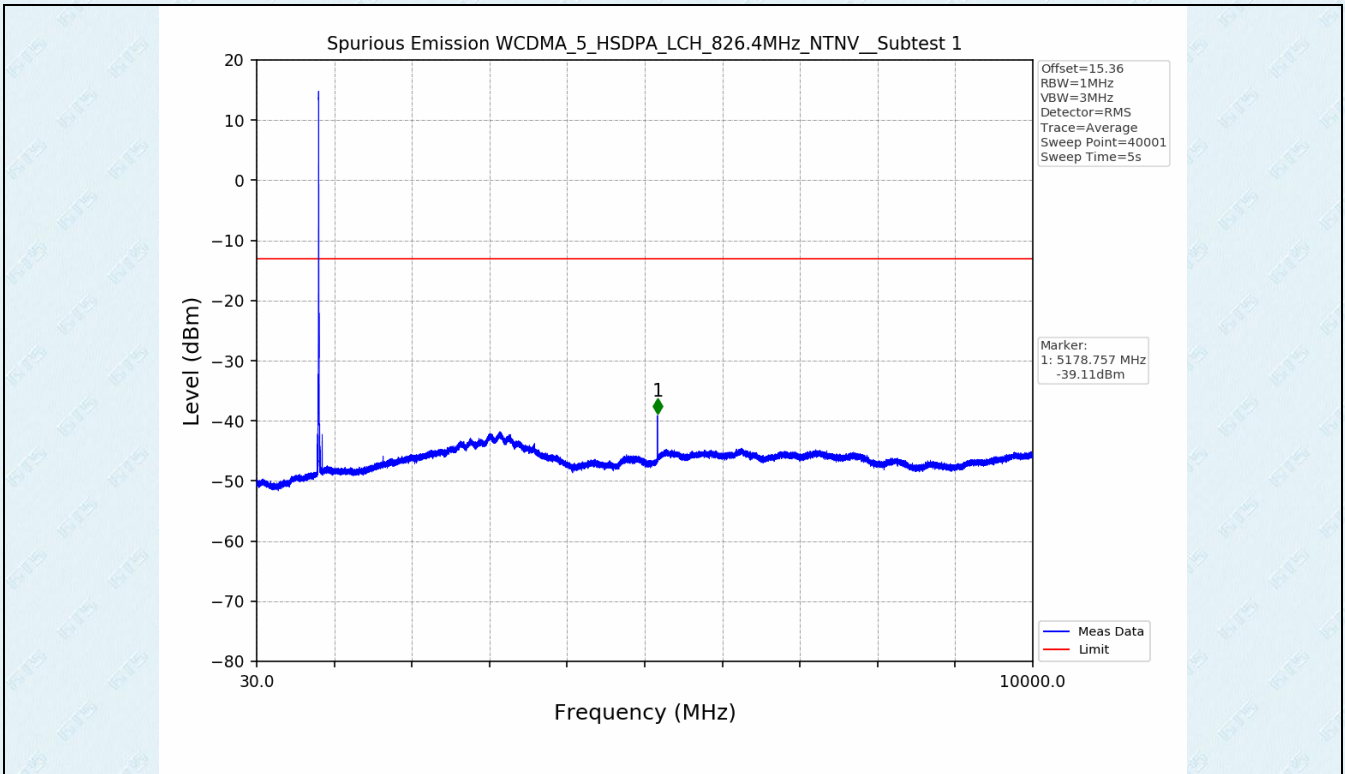
5. Spurious Emission

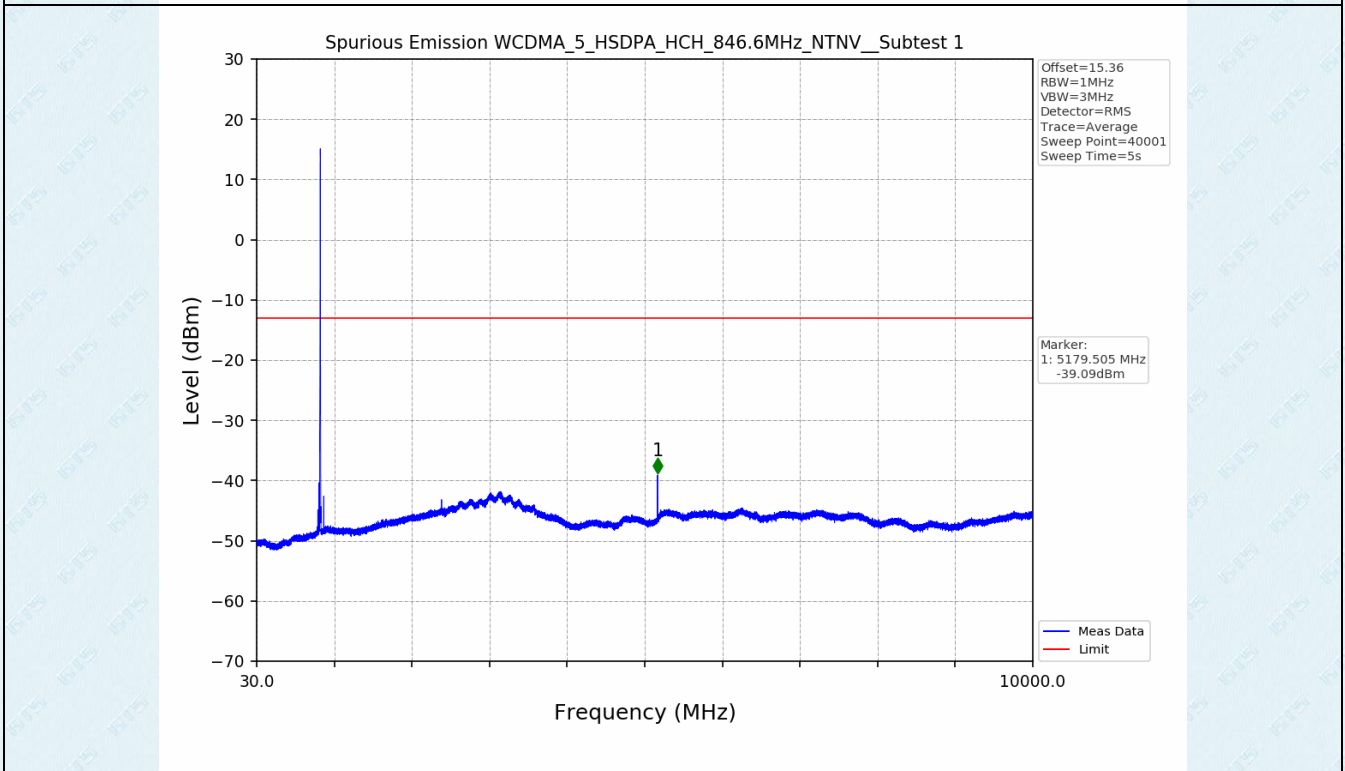
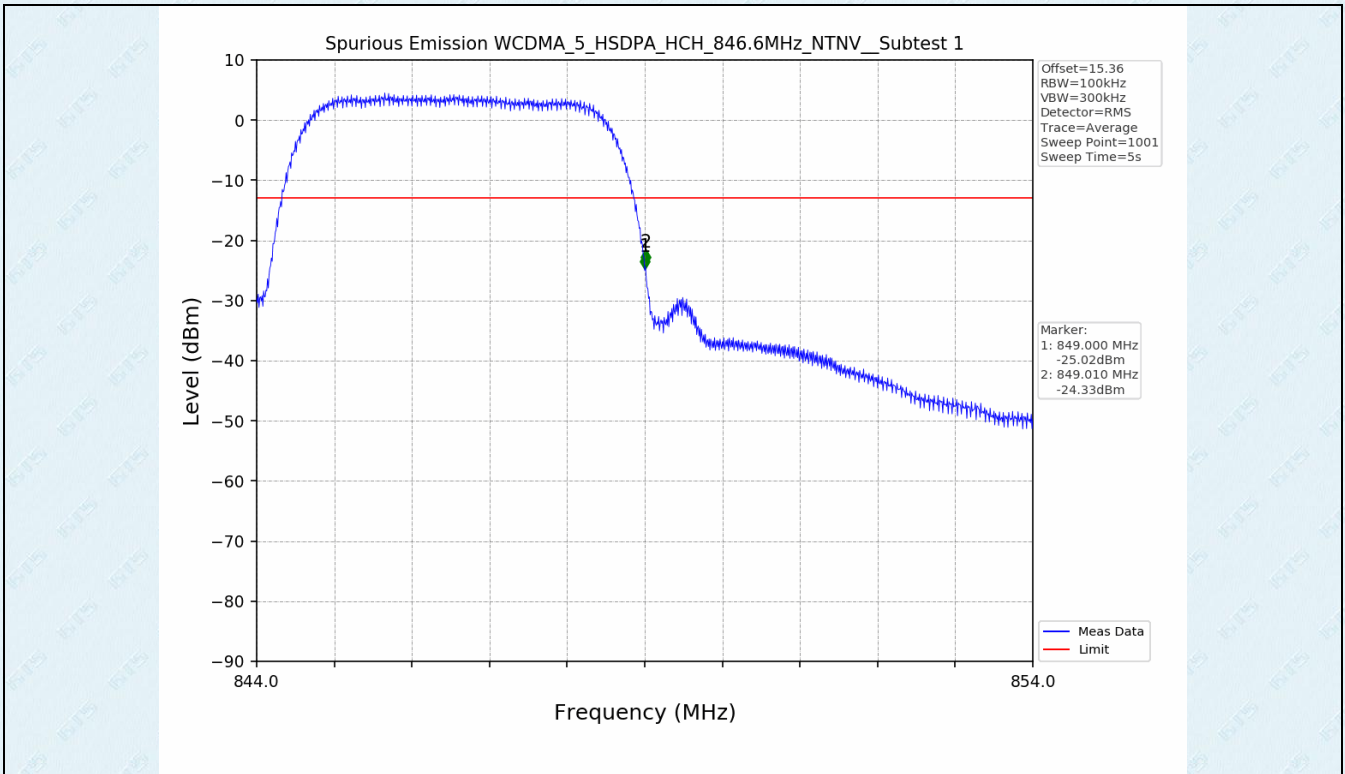
5.1 Test Graph

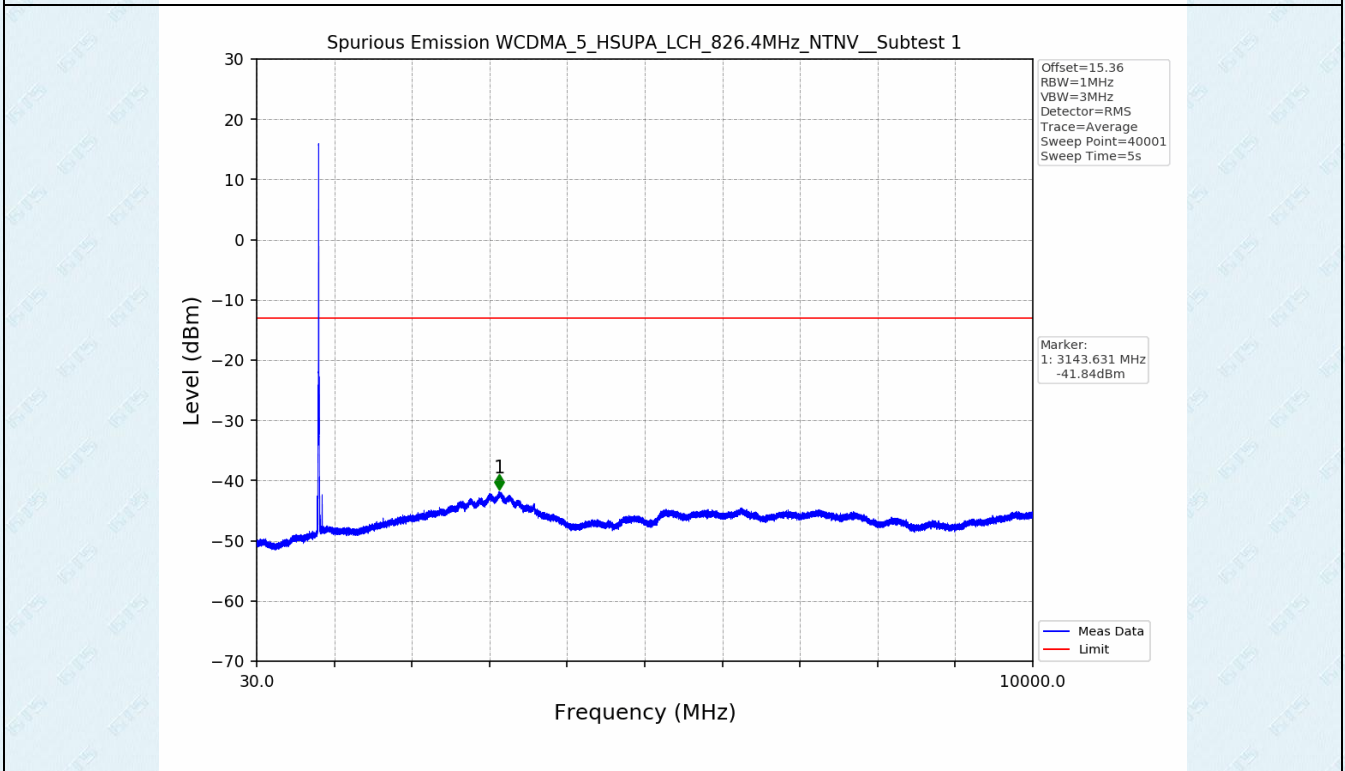
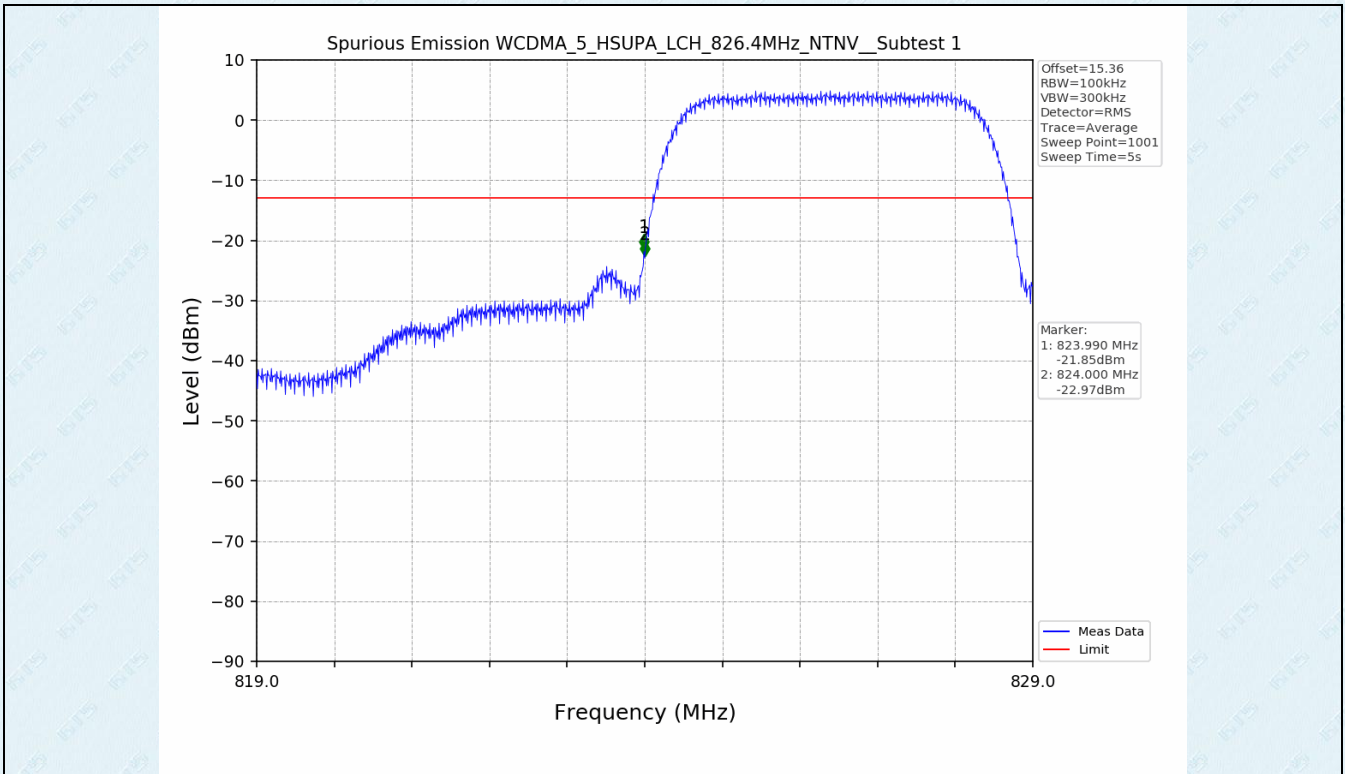


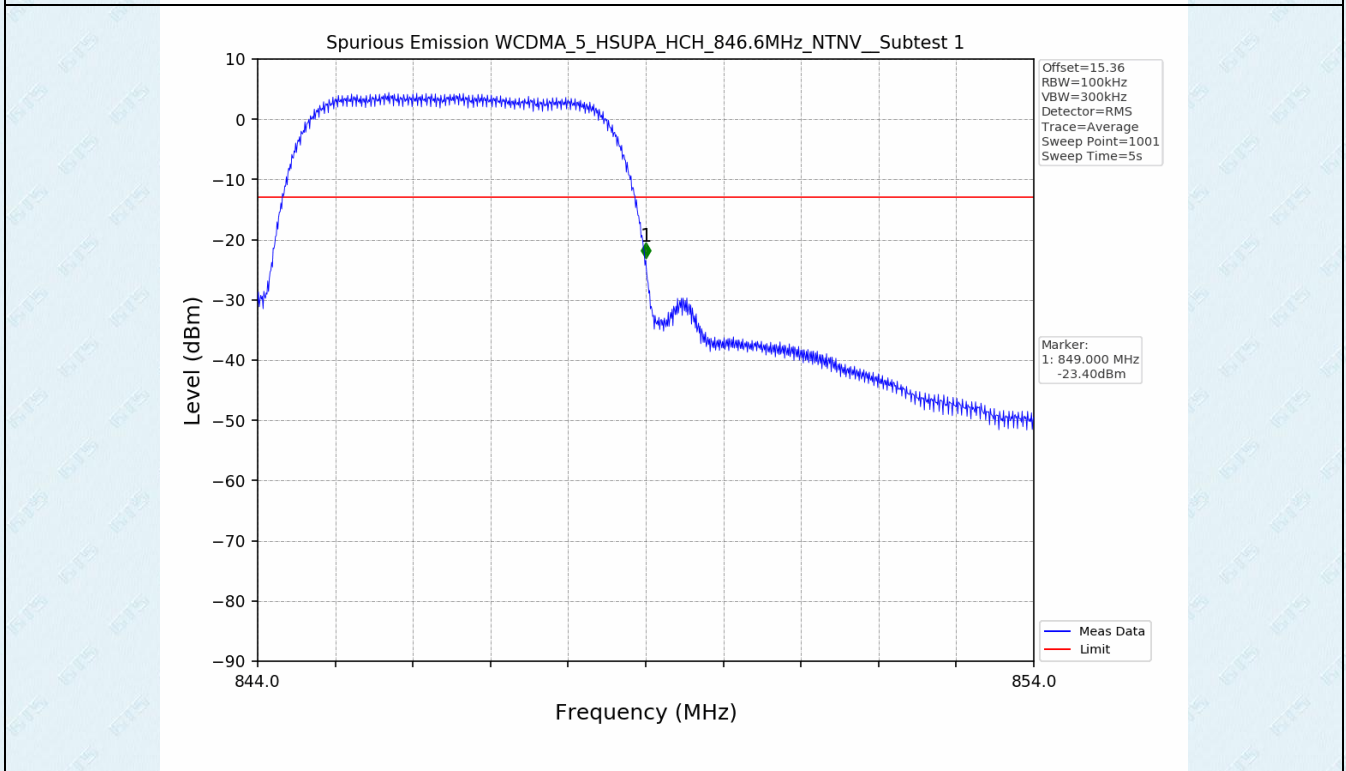
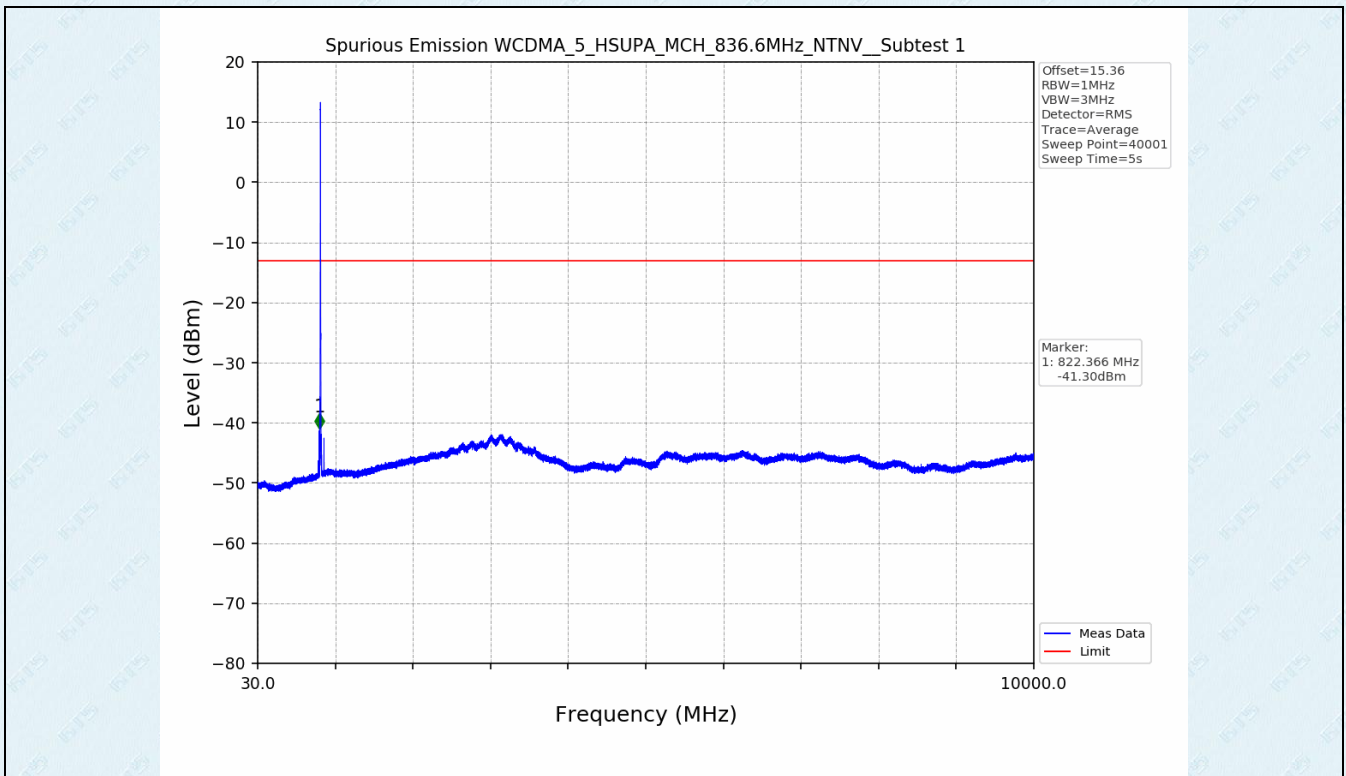


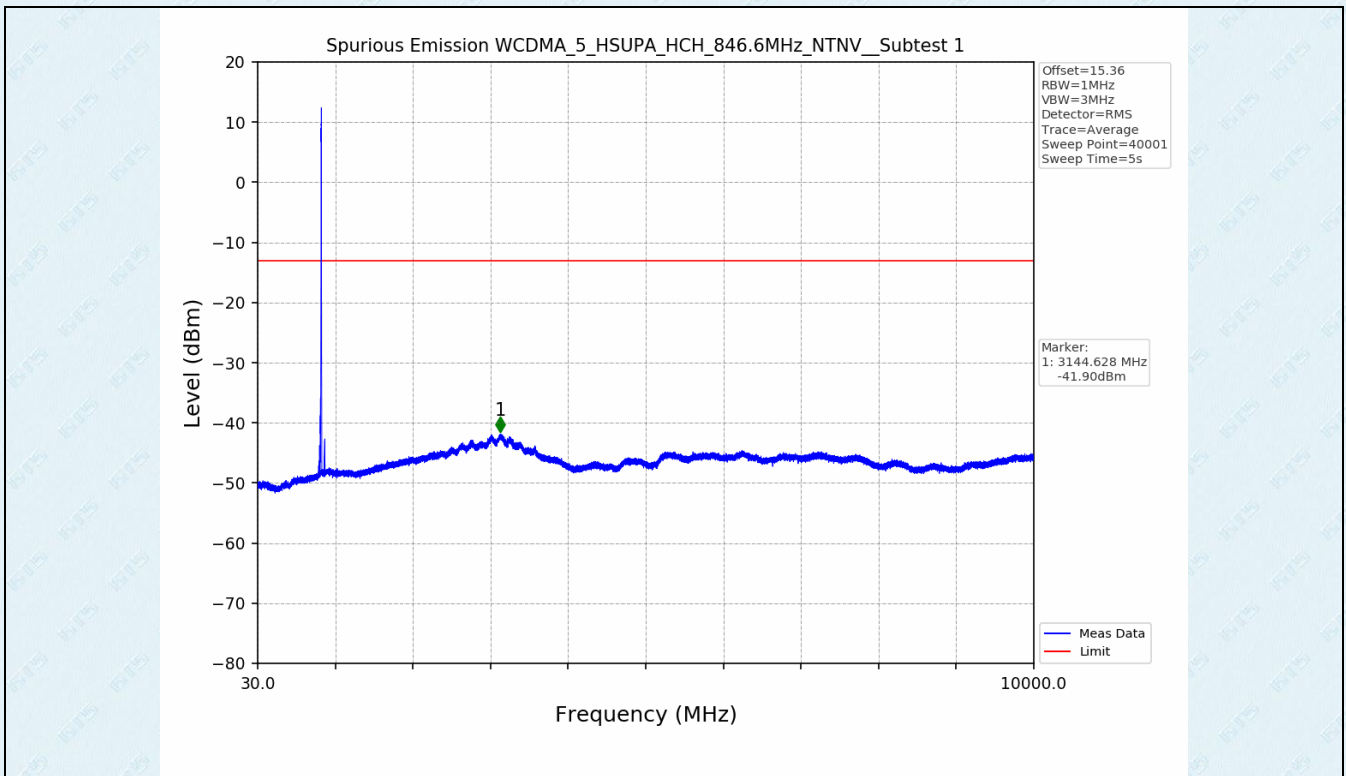












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